

PV Module String Sizing for Solectria Renewables PVI 1800 and PVI 2500 grid tied inverters.

See bottom for step-by-step instructions

Note that these are suggested configurations only. Vary all the actual site temperature extremes and conditions will yield voltages and power levels within the specifications of the inverter and other components used in the system.

See bottom of chart for web link to temperature data in your area. The Voc & Vmp values given in the tables use module manufacturers' ratings. Cell temp rise above ambient do not include effects of roofs or voltage drops through your wire. Note that the inverter's maximum continuous AC power is limited to its 1800 or 2500W AC output rating. Also, refer to the inverter AC output power versus input voltage and current in the Technical Data section of the Installation and Operation Manual

located at: <http://www.soltrac.com/customer/manuals.html>

DC, PTC AC system power ratings are based on PVI module PTC power rating and PTC efficiencies of the 240VAC PVI 1800 and PVI 2500 inverter.

Datatables: <http://www.soltrac.com/products/ptcrescom.html>

Last updated: 8/14/2009

Module Manufacturer		Aleo Solar					aleo S_18 230		Power @ MPT		230.0 W							
Module Model		aleo S_18 230							PTC Power Rating		204.6 W							
Voltage @ MPT (STC)		29.1 VDC							Temp Coeff of Vmp		0.124 V/degC	(Vmp)						
Current @ MPT (STC)		7.9 ADC							Temp Coeff of Voc		0.124 V/degC	(Voc)						
Current, short circuit		8.44 ADC							NOCT (nom. cell temp)		48 deg C		118.4 deg F					
OCV @ 25 deg C cells		36.6 VDC																
Modules total in array		6	7	8	9	10	12	14										
Modules per string		6	7	8	9	10	6	7										
Strings in Parallel		1	1	1	1	1	2	2										
Voltage @ MPT (STC)		174.6	203.7	232.8	261.9	291.0	174.6	203.7										
Vmp @ max amb temp (30C, 86F amb)		146.3	170.7	195.1	219.5	243.9	146.3	170.7										
Vmp @ max amb temp (35C, 95F amb)		142.6	166.4	190.1	213.9	237.7	142.6	166.4										
Vmp @ max amb temp (40C, 104F amb)		138.9	162.0	185.2	208.3	231.5	138.9	162.0										
Vmp @ max amb temp (45C, 113F amb)		135.2	157.7	180.2	202.8	225.3	135.2	157.7										
Vmp @ max amb temp (50C, 122F amb)		131.4	153.4	175.3	197.2	219.1	131.4	153.4										
OCV @ 25 deg C cells		219.6	256.2	292.8	329.4	366.0	219.6	256.2										
OCV @ coldest temp (-40C, -40F amb)		268.0	312.6	357.3	401.9	446.6	268.0	312.6										
OCV @ coldest temp (-30C, -22F amb)		260.5	303.9	347.4	390.8	434.2	260.5	303.9										
OCV @ coldest temp (-20C, -4F amb)		253.1	295.3	337.4	379.6	421.8	253.1	295.3										
OCV @ coldest temp (-10C, 14F amb)		245.6	286.6	326.5	366.5	409.6	245.6	286.6										
OCV @ coldest temp (0C, 32F amb)		238.2	277.9	317.6	357.3	397.0	238.2	277.9										
Power @ MPT (STC)		1380	1610	1840	2070	2300	2760	3220										
PTC AC system power rating		1136	1325	1514	1703	1893	2283	2664										
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500										

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Aleo Solar					aleo S_18 225		Power @ MPT		225.0 W							
Module Model		aleo S_18 225							PTC Power Rating		200.0 W							
Voltage @ MPT (STC)		28.9 VDC							Temp Coeff of Vmp		0.124 V/degC	(Vmp)						
Current @ MPT (STC)		7.78 ADC							Temp Coeff of Voc		0.124 V/degC	(Voc)						
Current, short circuit		8.34 ADC							NOCT (nom. cell temp)		48 deg C		118.4 deg F					
OCV @ 25 deg C cells		36.4 VDC																
Modules total in array		6	7	8	9	10	12	14										
Modules per string		6	7	8	9	10	6	7										
Strings in Parallel		1	1	1	1	1	2	2										
Voltage @ MPT (STC)		173.4	202.3	231.2	260.1	289.0	173.4	202.3										
Vmp @ max amb temp (30C, 86F amb)		145.1	169.3	193.5	217.7	241.9	145.1	169.3										
Vmp @ max amb temp (35C, 95F amb)		141.4	165.0	188.5	212.1	235.7	141.4	165.0										
Vmp @ max amb temp (40C, 104F amb)		137.7	160.6	183.6	206.5	229.5	137.7	160.6										
Vmp @ max amb temp (45C, 113F amb)		134.0	156.3	178.6	201.0	223.3	134.0	156.3										
Vmp @ max amb temp (50C, 122F amb)		130.2	152.0	173.7	195.4	217.1	130.2	152.0										
OCV @ 25 deg C cells		218.4	254.8	291.2	327.6	364.0	218.4	254.8										
OCV @ coldest temp (-40C, -40F amb)		265.8	311.2	355.7	400.1	444.5	265.8	311.2										
OCV @ coldest temp (-30C, -22F amb)		259.3	302.5	345.8	389.0	432.2	259.3	302.5										
OCV @ coldest temp (-20C, -4F amb)		251.9	293.9	335.8	377.8	419.8	251.9	293.9										
OCV @ coldest temp (-10C, 14F amb)		244.4	285.2	325.9	366.7	407.4	244.4	285.2										
OCV @ coldest temp (0C, 32F amb)		237.0	276.5	316.0	355.5	395.0	237.0	276.5										
Power @ MPT (STC)		1360	1590	1820	2025	2250	2700	3150										
PTC AC system power rating		1110	1295	1480	1665	1850	2232	2604										
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500										

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Aleo Solar					aleo S_18 220		Power @ MPT		220.0 W							
Module Model		aleo S_18 220							PTC Power Rating		195.5 W							
Voltage @ MPT (STC)		28.7 VDC							Temp Coeff of Vmp		0.123 V/degC	(Vmp)						
Current @ MPT (STC)		7.65 ADC							Temp Coeff of Voc		0.123 V/degC	(Voc)						
Current, short circuit		8.24 ADC							NOCT (nom. cell temp)		48 deg C		118.4 deg F					
OCV @ 25 deg C cells		36.3 VDC																
Modules total in array		6	7	8	9	10	12	14										
Modules per string		6	7	8	9	10	6	7										
Strings in Parallel		1	1	1	1	1	2	2										
Voltage @ MPT (STC)		172.2	200.9	229.6	258.3	287.0	172.2	200.9										
Vmp @ max amb temp (30C, 86F amb)		144.2	168.2	192.2	216.2	240.3	144.2	168.2										
Vmp @ max amb temp (35C, 95F amb)		140.5	163.9	187.3	210.7	234.1	140.5	163.9										
Vmp @ max amb temp (40C, 104F amb)		136.8	159.6	182.4	205.2	228.0	136.8	159.6										
Vmp @ max amb temp (45C, 113F amb)		133.1	155.3	177.4	199.6	221.8	133.1	155.3										
Vmp @ max amb temp (50C, 122F amb)		129.4	151.0	172.5	194.1	215.7	129.4	151.0										
OCV @ 25 deg C cells		217.8	254.1	290.4	326.7	363.0	217.8	254.1										
OCV @ coldest temp (-40C, -40F amb)		265.8	310.1	354.4	398.7	443.0	265.8	310.1										
OCV @ coldest temp (-30C, -22F amb)		258.4	301.5	344.5	387.6	430.7	258.4	301.5										
OCV @ coldest temp (-20C, -4F amb)		251.0	292.8	334.7	376.5	418.4	251.0	292.8										
OCV @ coldest temp (-10C, 14F amb)		243.6	284.2	324.8	365.4	406.0	243.6	284.2										
OCV @ coldest temp (0C, 32F amb)		236.3	275.6	315.0	354.4	393.8	236.3	275.6										
Power @ MPT (STC)		1320	1540	1760	1980	2200	2640	3080										
PTC AC system power rating		1085	1266	1447	1628	1808	2182	2545										
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500										

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Module Manufacturer		Aleo Solar					aleo S_18 215		Power @ MPT		215.0 W							
Module Model		aleo S_18 215							PTC Power Rating		190.9 W							
Voltage @ MPT (STC)		28.6 VDC							Temp Coeff of Vmp		0.123 V/degC	(Vmp)						
Current @ MPT (STC)		7.53 ADC							Temp Coeff of Voc		0.123 V/degC	(Voc)						
Current, short circuit		8.13 ADC							NOCT (nom. cell temp)		48 deg C		118.4 deg F					
OCV @ 25 deg C cells		36.1 VDC																
Modules total in array		6	7	8	9	10	12	14	16									
Modules per string		6	7	8	9	10	6	7	8									
Strings in Parallel		1	1	1	1	1	2	2	2									
Voltage @ MPT (STC)		171.6	200.2	228.8	257.4	286.0	171.6	200.2	228.8									
Vmp @ max amb temp (30C, 86F amb)		143.6	167.5	191.4	215.3	239.3	143.6	167.5	191.4									
Vmp @ max amb temp (35C, 95F amb)		139.9	163.2	186.5	209.8	233.1	139.9	163.2	186.5									
Vmp @ max amb temp (40C, 104F amb)		136.2	158.9	181.6	204.3	227.0	136.2	158.9	181.6									
Vmp @ max amb temp (45C, 113F amb)		132.5	154.6	176.6	198.7	220.8	132.5	154.6	176.6									
Vmp @ max amb temp (50C, 122F amb)		128.8	150.3	171.7	193.2	214.7	128.8	150.3	171.7									
OCV @ 25 deg C cells		216.6	252.7	288.8	324.9	361.0	216.6	252.7	288.8									
OCV @ coldest temp (-40C, -40F amb)		264.6	308.7	352.8	396.9	441.0	264.6	308.7	352.8									
OCV @ coldest temp (-30C, -22F amb)		257.2	300.1	342.9	385.8	428.7	257.2	300.1	342.9									
OCV @ coldest temp (-20C, -4F amb)		249.8	291.4	333.1	374.7	416.4	249.8	291.4	333.1									
OCV @ coldest temp (-10C, 14F amb)		242.4	282.8	323.2	363.6	404.1	242.4	282.8	323.2									
OCV @ coldest temp (0C, 32F amb)		235.1	274.2	313.4	352.6	391.8	235.1	274.2	313.4									
Power @ MPT (STC)		1290	1505	1720	1935	2150	2580	3010	3440									
PTC AC system power rating		1059	1236	1413	1589	1766	2130	2486	2841									
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500									

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Aleo Solar					aleo S_18 210		Power @ MPT		210.0 W							
Module Model		aleo S_18 210							PTC Power Rating		186.4 W							
Voltage @ MPT (STC)		28.4 VDC							Temp Coeff of Vmp		0.122 V/degC	(Vmp)						
Current @ MPT (STC)		7.41 ADC							Temp Coeff of Voc		0.122 V/degC	(Voc)						
Current, short circuit		8.03 ADC							NOCT (nom. cell temp)		48 deg C		118.4 deg F					
OCV @ 25 deg C cells		35.9 VDC																
Modules total in array		6	7	8	9	10	12	14	16									
Modules per string		6	7	8	9	10	6	7	8									
Strings in Parallel		1	1	1	1	1	2	2	2									
Voltage @ MPT (STC)		170.4	198.8	227.2	255.6	284.0	170.4	198.8	227.2									
Vmp @ max amb temp (30C, 86F amb)		142.6	166.3	190.1	213.9	237.6	142.6	166.3	190.1									
Vmp @ max amb temp (35C, 95F amb)		138.9	162.1	185.2	208.4	231.5	138.9	162.1	185.2									
Vmp @ max amb temp (40C, 104F amb)		135.3	157.8	180.4	202.9	225.4												

Module Manufacturer	Alpha 230W (by Ningbo)										230.0 W					
Module Model	TDB125x125-96-P (230W)										0.0 W					
Voltage @ MPT (STC)	46.8 VDC										PTC Power Rating					
Current @ MPT (STC)	4.92 ADC										Temp Coeff of Vmp	0.205 V/degC	(Vmpt)			
Current, short circuit	5.3 ADC										Temp Coeff of Voc	0.205 V/degC	(Voc)			
OCV @ 25 deg C cells	58.6 VDC										NOCT (nom. cell temp)	47 deg C	116.6 deg F			
Modules total in array	5	6	6	8	10	12	9	12	15							
Modules per string	5	6	3	4	5	6	3	4	5	6						
Strings in Parallel	1	1	2	2	2	2	3	3	3	3						
Voltage @ MPT (STC)	234.0	286.8	140.4	187.2	234.0	280.8	140.4	187.2	234.0	286.8						
Vmpt @ max amb temp (30C, 86F amb)	195.1	235.3	117.6	156.9	196.1	233.3	117.6	156.9	196.1	235.3						
Vmpt @ max amb temp (35C, 95F amb)	191.0	229.1	114.6	152.8	191.0	229.1	114.6	152.8	191.0	229.1						
Vmpt @ max amb temp (40C, 104F amb)	185.8	223.0	111.5	148.7	185.8	223.0	111.5	148.7	185.8	223.0						
Vmpt @ max amb temp (45C, 113F amb)	180.7	216.8	108.4	144.6	180.7	216.8	108.4	144.6	180.7	216.8						
Vmpt @ max amb temp (50C, 122F amb)	175.6	210.7	105.3	140.5	175.6	210.7	105.3	140.5	175.6	210.7						
OCV @ 25 deg C cells	290.0	351.6	175.8	234.4	293.0	351.6	175.8	234.4	290.0	351.6						
OCV @ coldest temp (-40C, -40F amb)	359.6	431.6	215.8	287.7	359.6	431.6	215.8	287.7	359.6	431.6						
OCV @ coldest temp (-30C, -22F amb)	349.4	419.3	209.6	279.5	349.4	419.3	209.6	279.5	349.4	419.3						
OCV @ coldest temp (-20C, -4F amb)	339.1	407.0	203.5	271.3	339.1	407.0	203.5	271.3	339.1	407.0						
OCV @ coldest temp (-10C, 14F amb)	328.9	394.7	197.3	263.1	328.9	394.7	197.3	263.1	328.9	394.7						
OCV @ coldest temp (0C, 32F amb)	318.6	382.4	191.2	254.9	318.6	382.4	191.2	254.9	318.6	382.4						
Power @ MPT (STC)	1190	1380	1380	1840	2300	2760	2070	2760	3450							
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 1800	PVI 2500	PVI 2500							

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orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Alpha 220W (by Ningbo)										220.0 W					
Module Model	TDB125x125-96-P (220W)										0.0 W					
Voltage @ MPT (STC)	46.4 VDC										PTC Power Rating					
Current @ MPT (STC)	4.74 ADC										Temp Coeff of Vmp	0.204 V/degC	(Vmpt)			
Current, short circuit	5.18 ADC										Temp Coeff of Voc	0.204 V/degC	(Voc)			
OCV @ 25 deg C cells	58.2 VDC										NOCT (nom. cell temp)	47 deg C	116.6 deg F			
Modules total in array	5	6	6	8	10	12	9	12	15	18						
Modules per string	5	6	4	4	5	6	3	4	5	6						
Strings in Parallel	1	1	2	2	2	2	3	3	3	3						
Voltage @ MPT (STC)	232.0	278.4	139.2	185.6	232.0	278.4	139.2	185.6	232.0	278.4						
Vmpt @ max amb temp (30C, 86F amb)	194.3	233.1	116.6	155.4	194.3	233.1	116.6	155.4	194.3	233.1						
Vmpt @ max amb temp (35C, 95F amb)	189.2	227.0	113.5	151.3	189.2	227.0	113.5	151.3	189.2	227.0						
Vmpt @ max amb temp (40C, 104F amb)	184.1	220.9	110.4	147.2	184.1	220.9	110.4	147.2	184.1	220.9						
Vmpt @ max amb temp (45C, 113F amb)	179.0	214.8	107.4	143.2	179.0	214.8	107.4	143.2	179.0	214.8						
Vmpt @ max amb temp (50C, 122F amb)	173.9	208.6	104.3	139.1	173.9	208.6	104.3	139.1	173.9	208.6						
OCV @ 25 deg C cells	291.0	349.2	174.6	232.8	291.0	349.2	174.6	232.8	291.0	349.2						
OCV @ coldest temp (-40C, -40F amb)	357.3	428.8	214.4	285.8	357.3	428.8	214.4	285.8	357.3	428.8						
OCV @ coldest temp (-30C, -22F amb)	347.1	416.7	208.3	277.7	347.1	416.7	208.3	277.7	347.1	416.7						
OCV @ coldest temp (-20C, -4F amb)	336.9	404.3	202.1	269.5	336.9	404.3	202.1	269.5	336.9	404.3						
OCV @ coldest temp (-10C, 14F amb)	326.7	392.0	196.0	261.4	326.7	392.0	196.0	261.4	326.7	392.0						
OCV @ coldest temp (0C, 32F amb)	316.5	379.8	189.9	253.2	316.5	379.8	189.9	253.2	316.5	379.8						
Power @ MPT (STC)	1100	1320	1320	1760	2200	2640	1980	2640	3360	3960						
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	PVI 2500						

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Module Manufacturer	Alpha 210W (by Ningbo)										210.0 W					
Module Model	TDB125x125-96-P (210W)										0.0 W					
Voltage @ MPT (STC)	46 VDC										PTC Power Rating					
Current @ MPT (STC)	4.57 ADC										Temp Coeff of Vmp	0.202 V/degC	(Vmpt)			
Current, short circuit	5.05 ADC										Temp Coeff of Voc	0.202 V/degC	(Voc)			
OCV @ 25 deg C cells	57.8 VDC										NOCT (nom. cell temp)	47 deg C	116.6 deg F			
Modules total in array	5	6	6	8	10	12	9	12	15	18						
Modules per string	5	6	3	4	5	6	3	4	5	6						
Strings in Parallel	1	1	2	2	2	2	3	3	3	3						
Voltage @ MPT (STC)	230.0	276.0	138.0	184.0	230.0	276.0	138.0	184.0	230.0	276.0						
Vmpt @ max amb temp (30C, 86F amb)	192.6	231.2	115.6	154.1	192.6	231.2	115.6	154.1	192.6	231.2						
Vmpt @ max amb temp (35C, 95F amb)	187.6	225.1	112.5	150.1	187.6	225.1	112.5	150.1	187.6	225.1						
Vmpt @ max amb temp (40C, 104F amb)	182.5	219.0	109.5	146.0	182.5	219.0	109.5	146.0	182.5	219.0						
Vmpt @ max amb temp (45C, 113F amb)	177.5	213.0	106.5	142.0	177.5	213.0	106.5	142.0	177.5	213.0						
Vmpt @ max amb temp (50C, 122F amb)	172.4	206.9	103.5	138.0	172.4	206.9	103.5	138.0	172.4	206.9						
OCV @ 25 deg C cells	289.0	346.8	173.4	231.2	289.0	346.8	173.4	231.2	289.0	346.8						
OCV @ coldest temp (-40C, -40F amb)	354.7	425.6	212.8	283.7	354.7	425.6	212.8	283.7	354.7	425.6						
OCV @ coldest temp (-30C, -22F amb)	344.6	413.5	206.7	275.6	344.6	413.5	206.7	275.6	344.6	413.5						
OCV @ coldest temp (-20C, -4F amb)	334.5	401.3	200.7	267.6	334.5	401.3	200.7	267.6	334.5	401.3						
OCV @ coldest temp (-10C, 14F amb)	324.4	389.2	194.6	259.6	324.4	389.2	194.6	259.6	324.4	389.2						
OCV @ coldest temp (0C, 32F amb)	314.3	377.1	188.6	251.4	314.3	377.1	188.6	251.4	314.3	377.1						
Power @ MPT (STC)	1050	1260	1260	1680	2100	2520	1890	2520	3150	3780						
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	PVI 2500						

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purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Alpha 180W (by Ningbo)										180.0 W					
Module Model	TDB125x125-72-P (180W)										0.0 W					
Voltage @ MPT (STC)	36.4 VDC										PTC Power Rating					
Current @ MPT (STC)	5.08 ADC										Temp Coeff of Vmp	0.155 V/degC	(Vmpt)			
Current, short circuit	5.53 ADC										Temp Coeff of Voc	0.155 V/degC	(Voc)			
OCV @ 25 deg C cells	44.2 VDC										NOCT (nom. cell temp)	47 deg C	116.6 deg F			
Modules total in array	5	6	7	8	10	12	14	16	15	18						
Modules per string	5	6	7	8	5	6	7	8	5	6						
Strings in Parallel	1	1	1	1	2	2	2	2	3	3						
Voltage @ MPT (STC)	177.0	212.4	247.8	283.2	177.0	212.4	247.8	283.2	177.0	212.4						
Vmpt @ max amb temp (30C, 86F amb)	148.3	178.0	207.7	237.3	148.3	178.0	207.7	237.3	148.3	178.0						
Vmpt @ max amb temp (35C, 95F amb)	144.5	173.3	202.2	231.1	144.5	173.3	202.2	231.1	144.5	173.3						
Vmpt @ max amb temp (40C, 104F amb)	140.6	168.7	196.8	224.9	140.6	168.7	196.8	224.9	140.6	168.7						
Vmpt @ max amb temp (45C, 113F amb)	136.7	164.0	191.4	218.7	136.7	164.0	191.4	218.7	136.7	164.0						
Vmpt @ max amb temp (50C, 122F amb)	132.8	159.4	186.0	212.5	132.8	159.4	186.0	212.5	132.8	159.4						
OCV @ 25 deg C cells	221.0	265.2	309.4	353.6	221.0	265.2	309.4	353.6	221.0	265.2						
OCV @ coldest temp (-40C, -40F amb)	271.4	325.7	379.9	434.2	271.4	325.7	379.9	434.2	271.4	325.7						
OCV @ coldest temp (-30C, -22F amb)	263.6	316.4	369.1	421.8	263.6	316.4	369.1	421.8	263.6	316.4						
OCV @ coldest temp (-20C, -4F amb)	255.9	307.1	358.2	409.4	255.9	307.1	358.2	409.4	255.9	307.1						
OCV @ coldest temp (-10C, 14F amb)	248.1	297.8	347.4	397.0	248.1	297.8	347.4	397.0	248.1	297.8						
OCV @ coldest temp (0C, 32F amb)	240.4	288.5	336.5	384.6	240.4	288.5	336.5	384.6	240.4	288.5						
Power @ MPT (STC)	900	1080	1260	1440	1800	2160	2520	2880	2700	3240						
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	PVI 2500						

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Alpha 175W (by Ningbo)										175.0 W					
Module Model	TDB125x125-72-P (175W)										0.0 W					
Voltage @ MPT (STC)	35.2 VDC										PTC Power Rating					
Current @ MPT (STC)	4.96 ADC										Temp Coeff of Vmp	0.154 V/degC	(Vmpt)			
Current, short circuit	5.48 ADC										Temp Coeff of Voc	0.154 V/degC	(Voc)			
OCV @ 25 deg C cells	44 VDC										NOCT (nom. cell temp)	47 deg C	116.6 deg F			
Modules total in array	5	6	7	8	10	12	14	16	15	18						
Modules per string	5	6	7	8	5	6	7	8	5	6						
Strings in Parallel	1	1	1	1	2	2	2	2	3	3						
Voltage @ MPT (STC)	171.0	211.2	246.4	281.6	171.0	211.2	246.4	281.6	171.0	211.2						
Vmpt @ max amb temp (30C, 86F amb)	147.5	177.0	206.5	236.0	147.5	177.0	206.5	236.0	147.5	177.0						
Vmpt @ max amb temp (35C, 95F amb)	143.7															

Module Manufacturer		Alpha 170W (by Ningbo)					Power @ MPT			170.0 W								
Module Model		TDB125x125-72-P (170W)					PTC Power Rating			149.8 W								
Voltage @ MPT (STC)		35 VDC					PTC Power Rating			149.8 W						For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Current @ MPT (STC)		4.86 ADC					Temp Coeff of Vmpt			0.154 V/degC			(Vmpt)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Current, short circuit		5.36 ADC					Temp Coeff of Vocv			0.154 V/degC			(Vocv)			purple is OK but indicates inverter will limit to 2500W AC continuous output		
OCV @ 25 deg C cells		44 VDC					NOCT (nom. cell temp)			47 deg C			116.6 deg F					
Modules total in array	5	6	7	8	10	12	14	16	15	18								
Modules per string	5	6	7	8	5	6	7	8	5	6								
Strings in Parallel	1	1	1	1	2	2	2	2	3	3								
Voltage @ MPT (STC)	175.0	210.0	245.0	280.0	175.0	210.0	245.0	280.0	175.0	210.0								
Vmpt @ max amb temp (30C, 86F amb)	145.5	175.8	205.1	234.4	146.5	175.8	205.1	234.4	145.5	175.8								
Vmpt @ max amb temp (35C, 95F amb)	142.7	171.2	199.7	228.3	142.7	171.2	199.7	228.3	142.7	171.2								
Vmpt @ max amb temp (40C, 104F amb)	138.8	166.6	194.3	222.1	138.8	166.6	194.3	222.1	138.8	166.6								
Vmpt @ max amb temp (45C, 113F amb)	135.0	162.0	188.9	215.9	135.0	162.0	188.9	215.9	135.0	162.0								
Vmpt @ max amb temp (50C, 122F amb)	131.1	157.3	183.6	209.8	131.1	157.3	183.6	209.8	131.1	157.3								
OCV @ 25 deg C cells	220.0	284.0	306.0	359.0	220.0	284.0	306.0	359.0	220.0	284.0								
OCV @ coldest temp (-40C, -40F amb)	270.1	324.1	378.1	432.1	270.1	324.1	378.1	432.1	270.1	324.1								
OCV @ coldest temp (-30C, -22F amb)	262.4	314.8	367.3	419.8	262.4	314.8	367.3	419.8	262.4	314.8								
OCV @ coldest temp (-20C, -4F amb)	254.7	305.6	356.5	407.4	254.7	305.6	356.5	407.4	254.7	305.6								
OCV @ coldest temp (-10C, 14F amb)	247.0	296.3	345.7	395.1	247.0	296.3	345.7	395.1	247.0	296.3								
OCV @ coldest temp (0C, 32F amb)	239.3	287.1	335.0	382.8	239.3	287.1	335.0	382.8	239.3	287.1								
Power @ MPT (STC)	850	1020	1190	1360	1700	2040	2380	2720	2550	3060								
PTC AC system power rating	693	831	970	1109	1386	1663	1950	2229	2090	2508								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer		Alpha 165W (by Ningbo)					Power @ MPT			165.0 W								
Module Model		TDB125x125-72-P (165W)					PTC Power Rating			145.3 W								
Voltage @ MPT (STC)		34.8 VDC					PTC Power Rating			145.3 W						For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Current @ MPT (STC)		4.74 ADC					Temp Coeff of Vmpt			0.1533 V/degC			(Vmpt)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Current, short circuit		5.26 ADC					Temp Coeff of Vocv			0.1533 V/degC			(Vocv)			purple is OK but indicates inverter will limit to 2500W AC continuous output		
OCV @ 25 deg C cells		43.8 VDC					NOCT (nom. cell temp)			47 deg C			116.6 deg F					
Modules total in array	5	6	7	8	10	12	14	16	15	18	21							
Modules per string	5	6	7	8	5	6	7	8	5	6	7							
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3							
Voltage @ MPT (STC)	174.0	208.8	243.6	278.4	174.0	208.8	243.6	278.4	174.0	208.8	243.6							
Vmpt @ max amb temp (30C, 86F amb)	145.6	174.8	203.9	233.0	145.6	174.8	203.9	233.0	145.6	174.8	203.9							
Vmpt @ max amb temp (35C, 95F amb)	141.8	170.2	198.5	226.9	141.8	170.2	198.5	226.9	141.8	170.2	198.5							
Vmpt @ max amb temp (40C, 104F amb)	138.0	165.6	193.2	220.8	138.0	165.6	193.2	220.8	138.0	165.6	193.2							
Vmpt @ max amb temp (45C, 113F amb)	134.1	161.0	187.8	214.6	134.1	161.0	187.8	214.6	134.1	161.0	187.8							
Vmpt @ max amb temp (50C, 122F amb)	130.3	156.4	182.4	208.5	130.3	156.4	182.4	208.5	130.3	156.4	182.4							
OCV @ 25 deg C cells	219.0	282.8	306.6	350.4	219.0	282.8	306.6	350.4	219.0	282.8	306.6							
OCV @ coldest temp (-40C, -40F amb)	268.8	322.6	376.4	430.1	268.8	322.6	376.4	430.1	268.8	322.6	376.4							
OCV @ coldest temp (-30C, -22F amb)	261.2	313.4	365.6	417.9	261.2	313.4	365.6	417.9	261.2	313.4	365.6							
OCV @ coldest temp (-20C, -4F amb)	253.5	304.2	354.9	405.6	253.5	304.2	354.9	405.6	253.5	304.2	354.9							
OCV @ coldest temp (-10C, 14F amb)	245.8	295.0	344.2	393.3	245.8	295.0	344.2	393.3	245.8	295.0	344.2							
OCV @ coldest temp (0C, 32F amb)	238.2	285.8	333.4	381.1	238.2	285.8	333.4	381.1	238.2	285.8	333.4							
Power @ MPT (STC)	825	990	1155	1320	1650	1980	2310	2640	2475	2970	3465							
PTC AC system power rating	672	806	941	1075	1344	1613	1922	2162	2027	2432	2838							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Alpha 160W (by Ningbo)					Power @ MPT			160.0 W								
Module Model		TDB125x125-72-P (160W)					PTC Power Rating			140.0 W								
Voltage @ MPT (STC)		34.6 VDC					PTC Power Rating			140.0 W						For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Current @ MPT (STC)		4.63 ADC					Temp Coeff of Vmpt			0.153 V/degC			(Vmpt)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Current, short circuit		5.19 ADC					Temp Coeff of Vocv			0.153 V/degC			(Vocv)			purple is OK but indicates inverter will limit to 2500W AC continuous output		
OCV @ 25 deg C cells		43.6 VDC					NOCT (nom. cell temp)			47 deg C			116.6 deg F					
Modules total in array	5	6	7	8	10	12	14	16	15	18	21							
Modules per string	5	6	7	8	5	6	7	8	5	6	7							
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3							
Voltage @ MPT (STC)	173.0	207.6	242.2	276.8	173.0	207.6	242.2	276.8	173.0	207.6	242.2							
Vmpt @ max amb temp (30C, 86F amb)	144.7	173.6	202.6	231.5	144.7	173.6	202.6	231.5	144.7	173.6	202.6							
Vmpt @ max amb temp (35C, 95F amb)	140.9	169.0	197.2	225.4	140.9	169.0	197.2	225.4	140.9	169.0	197.2							
Vmpt @ max amb temp (40C, 104F amb)	137.0	164.5	191.9	219.3	137.0	164.5	191.9	219.3	137.0	164.5	191.9							
Vmpt @ max amb temp (45C, 113F amb)	133.2	159.9	186.5	213.2	133.2	159.9	186.5	213.2	133.2	159.9	186.5							
Vmpt @ max amb temp (50C, 122F amb)	129.4	155.3	181.7	208.4	129.4	155.3	181.7	208.4	129.4	155.3	181.7							
OCV @ 25 deg C cells	218.0	281.6	305.2	348.8	218.0	281.6	305.2	348.8	218.0	281.6	305.2							
OCV @ coldest temp (-40C, -40F amb)	267.7	321.3	374.8	428.4	267.7	321.3	374.8	428.4	267.7	321.3	374.8							
OCV @ coldest temp (-30C, -22F amb)	260.1	312.1	364.1	416.1	260.1	312.1	364.1	416.1	260.1	312.1	364.1							
OCV @ coldest temp (-20C, -4F amb)	252.4	302.9	353.4	403.9	252.4	302.9	353.4	403.9	252.4	302.9	353.4							
OCV @ coldest temp (-10C, 14F amb)	244.7	293.7	343.2	393.7	244.7	293.7	343.2	393.7	244.7	293.7	343.2							
OCV @ coldest temp (0C, 32F amb)	237.1	284.6	332.0	379.4	237.1	284.6	332.0	379.4	237.1	284.6	332.0							
Power @ MPT (STC)	800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360							
PTC AC system power rating	651	781	912	1042	1302	1563	1833	2095	1964	2357	2750							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Alpha 150W (by Ningbo)					Power @ MPT			150.0 W								
Module Model		TDB125x125-72-P (150W)					PTC Power Rating			131.7 W								
Voltage @ MPT (STC)		34.2 VDC					PTC Power Rating			131.7 W						For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Current @ MPT (STC)		4.39 ADC					Temp Coeff of Vmpt			0.151 V/degC			(Vmpt)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Current, short circuit		5.1 ADC					Temp Coeff of Vocv			0.151 V/degC			(Vocv)			purple is OK but indicates inverter will limit to 2500W AC continuous output		
OCV @ 25 deg C cells		43.2 VDC					NOCT (nom. cell temp)			47 deg C			116.6 deg F					
Modules total in array	5	6	7	8	10	12	14	16	15	18	21							
Modules per string	5	6	7	8	5	6	7	8	5	6	7							
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3							
Voltage @ MPT (STC)	171.0	205.2	239.4	273.6	171.0	205.2	239.4	273.6	171.0	205.2	239.4							
Vmpt @ max amb temp (30C, 86F amb)	143.1																	

Module Manufacturer		Atlantis Energy											Power @ MPT					13.3 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		Sharp-A											PTC Power Rating					11.4 W														
Voltage @ MPT (STC)		2.93 VDC											Temp Coeff of Vmppt					0.0158 V/DegC		(Vmppt)												
Current @ MPT (STC)		4.54 ADC											Temp Coeff of Vocv					0.0158 V/DegC		(Vocv)												
Current, short circuit		4.84 ADC											NOCT (nom. cell temp)					47.5 deg C		117.5 deg F												
OCV @ 25 deg C cells		3.91 VDC																														
Modules total in array														60	70	75	80	85	90	120	140	150	160	170	180	180	195	225	240	255	270	
Modules per string														60	70	75	80	85	90	60	70	75	80	85	90	60	65	75	80	85	90	
Strings in Parallel														1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	
Voltage @ MPT (STC)		175.8	205.1	219.8	234.4	249.1	263.7	175.8	205.1	219.8	234.4	249.1	263.7	175.8	190.5	219.8	234.4	249.1	263.7													
Vmpt @ max amb temp (30C, 86F amb)	140.3	163.6	175.3	187.0	198.7	210.4	140.3	163.6	175.3	187.0	198.7	210.4	140.3	151.9	175.3	198.7	210.4	222.0														
Vmpt @ max amb temp (35C, 95F amb)	135.5	158.1	169.4	180.7	192.0	203.3	135.5	158.1	169.4	180.7	192.0	203.3	135.5	146.8	169.4	192.0	203.3	214.6														
Vmpt @ max amb temp (40C, 104F amb)	130.8	152.6	163.5	174.4	185.3	196.2	130.8	152.6	163.5	174.4	185.3	196.2	130.8	141.7	163.5	185.3	196.2	207.1														
Vmpt @ max amb temp (45C, 113F amb)	126.0	147.0	157.5	168.0	178.5	189.0	126.0	147.0	157.5	168.0	178.5	189.0	126.0	136.5	157.5	178.5	189.0	199.5														
Vmpt @ max amb temp (50C, 122F amb)	121.3	141.5	151.6	161.7	171.8	181.9	121.3	141.5	151.6	161.7	171.8	181.9	121.3	131.4	151.6	171.8	181.9	192.0														
OCV @ 25 deg C cells	234.6	273.7	293.3	312.8	332.4	351.9	234.6	273.7	293.3	312.8	332.4	351.9	234.6	254.2	293.3	312.8	332.4	351.9														
OCV @ coldest temp (-40C, -40F amb)	296.2	345.6	370.3	395.0	419.6	444.3	296.2	345.6	370.3	395.0	419.6	444.3	296.2	320.9	370.3	395.0	419.6	444.3														
OCV @ coldest temp (-30C, -22F amb)	286.7	334.5	358.4	382.3	406.2	430.1	286.7	334.5	358.4	382.3	406.2	430.1	286.7	310.6	358.4	382.3	406.2	430.1														
OCV @ coldest temp (-20C, -4F amb)	277.3	323.5	346.6	369.7	392.8	415.9	277.3	323.5	346.6	369.7	392.8	415.9	277.3	300.4	346.6	369.7	392.8	415.9														
OCV @ coldest temp (-10C, 14F amb)	267.8	312.4	334.7	357.0	379.4	401.7	267.8	312.4	334.7	357.0	379.4	401.7	267.8	290.1	334.7	357.0	379.4	401.7														
OCV @ coldest temp (0C, 32F amb)	258.3	301.4	322.9	344.4	365.9	387.5	258.3	301.4	322.9	344.4	365.9	387.5	258.3	279.8	322.9	344.4	365.9	387.5														
Power @ MPT (STC)														798	931	997.5	1064	1130.5	1197	1596	1862	1995	2128	2261	2394	2394	2593.5	2992.5	3192	3391.5	3591	
PTC AC system power rating														633	738	791	844	896	949	1272	1484	1590	1696	1802	1908	1908	2067	2385	2544	2704	2863	
Suggested Inverter														PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

Module Manufacturer		Atlantis Energy											Power @ MPT					14.3 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		Sunstate-Q											PTC Power Rating					0.0 W														
Voltage @ MPT (STC)		2.9 VDC											Temp Coeff of Vmppt					0.012 V/DegC		(Vmppt)												
Current @ MPT (STC)		4.93 ADC											Temp Coeff of Vocv					0.012 V/DegC		(Vocv)												
Current, short circuit		5.47 ADC											NOCT (nom. cell temp)					47.5 deg C		117.5 deg F												
OCV @ 25 deg C cells		3.7 VDC																														
Modules total in array														60	70	75	80	90	95	120	130	140	160	180	190	180	195	210	225	240	255	
Modules per string														60	70	75	80	90	95	60	70	80	90	95	60	65	70	75	80	85	90	
Strings in Parallel														1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	
Voltage @ MPT (STC)		174.0	203.0	217.5	232.0	261.0	275.5	174.0	188.5	203.0	232.0	246.5	174.0	188.5	203.0	217.5	232.0	246.5														
Vmpt @ max amb temp (30C, 86F amb)	147.0	171.5	183.8	196.0	220.5	232.8	147.0	159.3	171.5	196.0	220.5	232.8	147.0	159.3	171.5	196.0	208.3															
Vmpt @ max amb temp (35C, 95F amb)	143.4	167.3	179.3	191.2	215.1	227.1	143.4	155.4	167.3	191.2	215.1	227.1	143.4	155.4	167.3	191.2	203.2															
Vmpt @ max amb temp (40C, 104F amb)	139.8	163.1	174.8	186.4	209.7	221.4	139.8	151.5	163.1	186.4	209.7	221.4	139.8	151.5	163.1	186.4	198.1															
Vmpt @ max amb temp (45C, 113F amb)	136.2	159.9	170.3	181.6	204.3	215.7	136.2	147.6	159.9	181.6	204.3	215.7	136.2	147.6	159.9	181.6	193.0															
Vmpt @ max amb temp (50C, 122F amb)	132.6	154.7	165.8	176.8	198.9	210.0	132.6	143.7	154.7	176.8	198.9	210.0	132.6	143.7	154.7	176.8	187.9															
OCV @ 25 deg C cells	222.0	259.0	277.5	296.0	333.0	351.5	222.0	240.5	259.0	296.0	333.0	351.5	222.0	240.5	259.0	296.0	314.5															
OCV @ coldest temp (-40C, -40F amb)	268.8	313.6	336.0	358.4	403.2	425.6	268.8	291.2	313.6	358.4	403.2	425.6	268.8	291.2	313.6	358.4	380.8															
OCV @ coldest temp (-30C, -22F amb)	261.6	305.2	327.0	348.8	392.4	414.2	261.6	283.4	305.2	348.8	392.4	414.2	261.6	283.4	305.2	327.0	348.8															
OCV @ coldest temp (-20C, -4F amb)	254.4	296.8	318.0	339.2	381.6	402.8	254.4	275.6	296.8	339.2	381.6	402.8	254.4	275.6	296.8	318.0	339.2															
OCV @ coldest temp (-10C, 14F amb)	247.2	288.4	309.6	329.6	370.8	391.4	247.2	267.8	288.4	329.6	370.8	391.4	247.2	267.8	288.4	309.6	329.6															
OCV @ coldest temp (0C, 32F amb)	240.0	280.0	300.0	320.0	360.0	380.0	240.0	260.0	280.0	320.0	360.0	380.0	240.0	260.0	280.0	300.0	320.0															
Power @ MPT (STC)														856	998	1070	1141	1283	1355	1711	1854	1996	2282	2567	2709	2567	2781	2995	3209	3422	3636	
PTC AC system power rating														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Suggested Inverter														PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

Module Manufacturer		BP Solar											Power @ MPT					200.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		SX 3200											PTC Power Rating					17.5 W														
Voltage @ MPT (STC)		24.5 VDC											Temp Coeff of Vmppt					0.111 V/DegC		(Vmppt)												
Current @ MPT (STC)		8.16 ADC											Temp Coeff of Vocv					0.111 V/DegC		(Vocv)												
Current, short circuit		8.7 ADC											NOCT (nom. cell temp)					47 deg C		116.6 deg F												
OCV @ 25 deg C cells		30.8 VDC																														
Modules total in array														6	7	8	9	10	11	12	14	16	16	16	16	16	16	16	16	16	16	
Modules per string														6	7	8	9	10	11	12	14	16	16	16	16	16	16	16	16	16	16	
Strings in Parallel														1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	
Voltage @ MPT (STC)		147.0	171.5	196.0	220.5	245.0	269.5	147.0	171.5	196.0	220.5	245.0	269.5	147.0	171.5	196.0	220.5															
Vmpt @ max amb temp (30C, 86F amb)	123.4	142.8	163.1	183.5	203.9	224.3	123.4	142.8	163.1	183.5	203.9	224.3	123.4	142.8	163.1	183.5																
Vmpt @ max amb temp (35C, 95F amb)	119.0	138.9	158.7	178.5	198.4	218.2	119.0	138.9	158.7	178.5	198.4	218.2	119.0	138.9	158.7	178.5																
Vmpt @ max amb temp (40C, 104F amb)	115.7	135.0	154.3	173.5	192.8	212.1	115.7	135.0	154.3	173.5	192.8	212.1	115.7	135.0	154.3	173.5																
Vmpt @ max amb temp (45C, 113F amb)	112.4	131.1	149.8	168.6	187.3	206.0	112.4	131.1	149.8	168.6	187.3	206.0	112.4	131.1	149.8	168.6																
Vmpt @ max amb temp (50C, 122F amb)	109.0	127.2	145.4	163.6	181.7	199.9	109.0	127.2	145.4	163.6	181.7	199.9	109.0	127.2	145.4	163.6																
OCV @ 25 deg C cells	184.8	215.6	246.4	277.2	308.0	338.8	184.8	215.6	246.4	277.2	308.0	338.8	184.8	215.6	246.4	277.2																
OCV @ coldest temp (-40C, -40F amb)	228.1	266.1	304.1	342.1	380.2	418.2	228.1	266.1	304.1	342.1	380.2	418.2	228.1	266.1	304.1	342.1																
OCV @ coldest temp (-30C, -22F amb)	221.4	258.3	295.2	332.1	369.1	406.0	221.4	258.3	295.2	332.1	369.1	406.0	221.4	258.3	295.2	332.1																
OCV @ coldest temp (-20C, -4F amb)	214.8	250.6	286.4	322.2	358.0	393.7	214.8	250.6	286.4	322.2	358.0	393.7	214.8	250.6	286.4	322.2																
OCV @ coldest temp (-10C, 14F amb)	208.1	242.6	277.1	311.6	346.1	380.6	208.1	242.6	277.1	311.6	346.1	380.6	208.1	242.6	277.1	311.6																
OCV @ coldest temp (0C, 32F amb)	201.5	235.0	268.6	302.2	335.8	369.3	201.5	235.0	268.6	302.2	335.8	369.3	201.5	235.0	268.6	302.2																
Power @ MPT (STC)														1200	1400	1600	1800	2000	2200	2400	2800	3200	3200	3200	3200	3200	3200	3200	3200	3200	3200	
PTC AC system power rating														985	1149	1314	1478	1642	1806	1981	2311	2641	2641	2641	2641	2641	2641	2641	2641	2641	2641	
Suggested Inverter														PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

Module Manufacturer		BP Solar											Power @ MPT					195.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		SX 3195											PTC Power Rating					17.0 W														
Voltage @ MPT (STC)		24.4 VDC											Temp Coeff of Vmppt					0.125 V/DegC		(Vmppt)												
Current @ MPT (STC)		7.96 ADC																														

Module Manufacturer		BP Solar SX 3175										Power @ MPT		175.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output																															
Module Model		36.1 VDC										PTC Power Rating		155.2 W																																			
Voltage @ MPT (STC)		4.85 ADC										Temp Coeff of Vmppt		0.16 V/degC		(Vmppt)																																	
Current @ MPT (STC)		5.3 ADC										Temp Coeff of Vocv		0.16 V/degC		(Vocv)																																	
Current, short circuit		43.6 VDC										NOCT (nom. cell temp)		47 deg C		116.6 deg F																																	
OCV @ 25 deg C cells																																																	
Modules total in array		4	5	6	7	8	8	10	12	14	16	12	15	18																																			
Modules per string		4	5	6	7	8	8	10	12	14	16	12	15	18																																			
Strings in Parallel		1	1	1	1	1	1	2	2	2	2	3	3	3																																			
Voltage @ MPT (STC)		144.4	180.5	216.6	252.7	288.8	144.4	180.5	216.6	252.7	288.8	144.4	180.5	216.6																																			
Vmppt @ max amb temp (30C, 86F amb)		120.7	150.9	181.1	211.3	241.4	120.7	150.9	181.1	211.3	241.4	120.7	150.9	181.1																																			
Vmppt @ max amb temp (35C, 95F amb)		117.5	146.9	176.3	205.7	235.0	117.5	146.9	176.3	205.7	235.0	117.5	146.9	176.3																																			
Vmppt @ max amb temp (40C, 104F amb)		114.3	142.9	171.5	200.1	228.6	114.3	142.9	171.5	200.1	228.6	114.3	142.9	171.5																																			
Vmppt @ max amb temp (45C, 113F amb)		111.1	138.9	166.7	194.5	222.2	111.1	138.9	166.7	194.5	222.2	111.1	138.9	166.7																																			
Vmppt @ max amb temp (50C, 122F amb)		107.9	134.9	161.9	188.9	215.8	107.9	134.9	161.9	188.9	215.8	107.9	134.9	161.9																																			
Vmppt @ max amb temp (55C, 131F amb)		104.7	131.8	158.8	185.8	212.8	104.7	131.8	158.8	185.8	212.8	104.7	131.8	158.8																																			
OCV @ 25 deg C cells		174.4	218.0	261.6	305.2	348.8	174.4	218.0	261.6	305.2	348.8	174.4	218.0	261.6																																			
OCV @ coldest temp (-40C, -40F amb)		216.0	270.0	324.0	378.0	432.0	216.0	270.0	324.0	378.0	432.0	216.0	270.0	324.0																																			
OCV @ coldest temp (-30C, -22F amb)		209.6	262.0	314.4	366.8	419.2	209.6	262.0	314.4	366.8	419.2	209.6	262.0	314.4																																			
OCV @ coldest temp (-20C, -4F amb)		203.2	254.0	304.8	355.6	406.4	203.2	254.0	304.8	355.6	406.4	203.2	254.0	304.8																																			
OCV @ coldest temp (-10C, 14F amb)		196.8	246.0	295.2	344.4	393.6	196.8	246.0	295.2	344.4	393.6	196.8	246.0	295.2																																			
OCV @ coldest temp (0C, 32F amb)		190.4	239.0	288.0	336.6	385.2	190.4	239.0	288.0	336.6	385.2	190.4	239.0	288.0																																			
Power @ MPT (STC)		700	875	1050	1225	1400	700	875	1050	1225	1400	700	875	1050																																			
PTC AC system power rating		574	718	861	1005	1148	574	718	861	1005	1148	574	718	861																																			
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800																																			

Module Manufacturer		BP Solar BP 1751										Power @ MPT (STC)		175.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output																																	
Module Model		35.8 VDC										PTC Power Rating		155.2 W																																					
Voltage @ MPT (STC)		4.9 ADC										Temp Coeff of Vmppt		0.16 V/degC		(Vmppt)																																			
Current @ MPT (STC)		5.4 ADC										Temp Coeff of Vocv		0.16 V/degC		(Vocv)																																			
Current, short circuit		44.2 VDC										NOCT (nom. cell temp)		47 deg C		116.6 deg F																																			
OCV @ 25 deg C cells																																																			
Modules total in array		4	5	6	7	8	8	10	12	14	16	12	15	18																																					
Modules per string		4	5	6	7	8	8	10	12	14	16	12	15	18																																					
Strings in Parallel		1	1	1	1	1	1	2	2	2	2	3	3	3																																					
Voltage @ MPT (STC)		143.2	179.0	214.8	250.6	286.4	143.2	179.0	214.8	250.6	286.4	143.2	179.0	214.8																																					
Vmppt @ max amb temp (30C, 86F amb)		119.5	149.4	179.3	209.2	239.0	119.5	149.4	179.3	209.2	239.0	119.5	149.4	179.3																																					
Vmppt @ max amb temp (35C, 95F amb)		116.3	145.4	174.5	203.6	232.6	116.3	145.4	174.5	203.6	232.6	116.3	145.4	174.5																																					
Vmppt @ max amb temp (40C, 104F amb)		113.1	141.4	169.7	198.0	226.2	113.1	141.4	169.7	198.0	226.2	113.1	141.4	169.7																																					
Vmppt @ max amb temp (45C, 113F amb)		109.9	137.4	164.9	192.4	219.8	109.9	137.4	164.9	192.4	219.8	109.9	137.4	164.9																																					
Vmppt @ max amb temp (50C, 122F amb)		106.7	133.4	160.1	186.8	213.4	106.7	133.4	160.1	186.8	213.4	106.7	133.4	160.1																																					
Vmppt @ max amb temp (55C, 131F amb)		103.5	130.1	156.8	183.4	210.0	103.5	130.1	156.8	183.4	210.0	103.5	130.1	156.8																																					
OCV @ 25 deg C cells		176.8	221.0	265.2	309.4	353.6	176.8	221.0	265.2	309.4	353.6	176.8	221.0	265.2																																					
OCV @ coldest temp (-40C, -40F amb)		218.4	273.0	327.6	382.2	436.8	218.4	273.0	327.6	382.2	436.8	218.4	273.0	327.6																																					
OCV @ coldest temp (-30C, -22F amb)		212.0	265.0	318.0	371.0	424.0	212.0	265.0	318.0	371.0	424.0	212.0	265.0	318.0																																					
OCV @ coldest temp (-20C, -4F amb)		205.6	257.0	308.4	359.8	411.2	205.6	257.0	308.4	359.8	411.2	205.6	257.0	308.4																																					
OCV @ coldest temp (-10C, 14F amb)		199.2	249.0	298.8	348.6	398.4	199.2	249.0	298.8	348.6	398.4	199.2	249.0	298.8																																					
OCV @ coldest temp (0C, 32F amb)		192.8	241.0	289.2	337.4	385.6	192.8	241.0	289.2	337.4	385.6	192.8	241.0	289.2																																					
Power @ MPT (STC)		700	875	1050	1225	1400	700	875	1050	1225	1400	700	875	1050																																					
PTC AC system power rating		574	718	861	1005	1148	574	718	861	1005	1148	574	718	861																																					
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800																																					

Module Manufacturer		BP Solar BP 4175 & BP1751										Power @ MPT	
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Module Manufacturer		BP Solar		Power @ MPT		160.0 W			
Module Model		SX 160BS		PTC Power Rating		142.0 W			
Voltage @ MPT (STC)		35 VDC		Temp Coeff of Vmp		0.16 V/DegC		(Vmp)	
Current @ MPT (STC)		4.6 ADC		Temp Coeff of Voc		0.16 V/DegC		(Voc)	
Current, short circuit		4.8 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F	
OCV @ 25 deg C cells		43.8 VDC							

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	175.0	210.0	245.0	280.0	175.0	210.0	245.0	280.0	175.0	210.0	245.0
Vmp @ max amb temp (30C, 86F amb)	145.4	174.5	203.6	232.7	145.4	174.5	203.6	232.6	145.4	174.5	203.6
Vmp @ max amb temp (35C, 95F amb)	141.4	169.7	198.0	226.2	141.4	169.7	198.0	226.2	141.4	169.7	198.0
Vmp @ max amb temp (40C, 104F amb)	137.4	164.9	192.4	219.8	137.4	164.9	192.4	219.8	137.4	164.88	192.36
Vmp @ max amb temp (45C, 113F amb)	133.4	160.1	186.8	213.4	133.4	160.1	186.8	213.4	133.4	160.08	186.76
Vmp @ max amb temp (50C, 122F amb)	129.4	155.3	181.2	207.0	129.4	155.3	181.2	207.0	129.4	155.3	181.2
OCV @ 25 deg C cells	219.0	262.8	306.6	350.4	219.0	262.8	306.6	350.4	219.0	262.8	306.6
OCV @ coldest temp (-40C, -40F amb)	271.0	325.2	379.4	433.6	271.0	325.2	379.4	433.6	271.0	325.2	379.4
OCV @ coldest temp (-30C, -22F amb)	263.0	315.6	368.2	420.8	263.0	315.6	368.2	420.8	263.0	315.6	368.2
OCV @ coldest temp (-20C, -4F amb)	255.0	306.0	357.0	408.0	255.0	306.0	357.0	408.0	255.0	306.0	357.0
OCV @ coldest temp (-10C, 14F amb)	247.0	296.4	345.8	395.2	247.0	296.4	345.8	395.2	247.0	296.4	345.8
OCV @ coldest temp (0C, 32F amb)	239.0	286.8	334.6	382.4	239.0	286.8	334.6	382.4	239.0	286.8	334.6
Power @ MPT (STC)	800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360
PTC AC system power rating	657	788	919	1051	1314	1576	1849	2113	1987	2377	2763
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		BP Solar		Power @ MPT		160.0 W			
Module Model		BP 3160		PTC Power Rating		142.1 W			
Voltage @ MPT (STC)		35.1 VDC		Temp Coeff of Vmp		0.16 V/DegC		(Vmp)	
Current @ MPT (STC)		4.55 ADC		Temp Coeff of Voc		0.16 V/DegC		(Voc)	
Current, short circuit		4.8 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F	
OCV @ 25 deg C cells		44.2 VDC							

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	175.5	210.6	245.7	280.8	175.5	210.6	245.7	280.8	175.5	210.6	245.7
Vmp @ max amb temp (30C, 86F amb)	145.9	175.1	204.3	233.4	145.9	175.1	204.3	233.4	145.9	175.1	204.3
Vmp @ max amb temp (35C, 95F amb)	141.9	170.3	198.7	227.0	141.9	170.3	198.7	227.0	141.9	170.3	198.7
Vmp @ max amb temp (40C, 104F amb)	137.9	165.5	193.1	220.6	137.9	165.5	193.1	220.6	137.9	165.5	193.1
Vmp @ max amb temp (45C, 113F amb)	133.9	160.7	187.5	214.2	133.9	160.7	187.5	214.2	133.9	160.7	187.5
Vmp @ max amb temp (50C, 122F amb)	129.9	155.9	181.9	207.8	129.9	155.9	181.9	207.8	129.9	155.9	181.9
OCV @ 25 deg C cells	221.0	265.2	309.4	353.6	221.0	265.2	309.4	353.6	221.0	265.2	309.4
OCV @ coldest temp (-40C, -40F amb)	273.0	327.6	382.2	436.8	273.0	327.6	382.2	436.8	273.0	327.6	382.2
OCV @ coldest temp (-30C, -22F amb)	265.0	318.0	371.0	426.0	265.0	318.0	371.0	426.0	265.0	318.0	371.0
OCV @ coldest temp (-20C, -4F amb)	257.0	308.4	359.8	411.2	257.0	308.4	359.8	411.2	257.0	308.4	359.8
OCV @ coldest temp (-10C, 14F amb)	249.0	298.8	348.6	398.4	249.0	298.8	348.6	398.4	249.0	298.8	348.6
OCV @ coldest temp (0C, 32F amb)	241.0	289.2	337.4	385.6	241.0	289.2	337.4	385.6	241.0	289.2	337.4
Power @ MPT (STC)	800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360
PTC AC system power rating	657	788	919	1051	1314	1576	1849	2113	1987	2377	2763
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		BP Solar		Power @ MPT		150.0 W			
Module Model		BP 3160		PTC Power Rating		133.0 W			
Voltage @ MPT (STC)		34.5 VDC		Temp Coeff of Vmp		0.16 V/DegC		(Vmp)	
Current @ MPT (STC)		4.35 ADC		Temp Coeff of Voc		0.16 V/DegC		(Voc)	
Current, short circuit		4.75 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F	
OCV @ 25 deg C cells		43.5 VDC							

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	172.5	207.0	241.5	276.0	172.5	207.0	241.5	276.0	172.5	207.0	241.5
Vmp @ max amb temp (30C, 86F amb)	142.9	171.5	200.1	228.6	142.9	171.5	200.1	228.6	142.9	171.5	200.1
Vmp @ max amb temp (35C, 95F amb)	138.9	166.7	194.5	222.2	138.9	166.7	194.5	222.2	138.9	166.7	194.5
Vmp @ max amb temp (40C, 104F amb)	134.9	161.9	188.9	215.8	134.9	161.9	188.9	215.8	134.9	161.9	188.9
Vmp @ max amb temp (45C, 113F amb)	130.9	157.1	183.3	209.4	130.9	157.1	183.3	209.4	130.9	157.1	183.3
Vmp @ max amb temp (50C, 122F amb)	126.9	152.3	177.7	198.9	126.9	152.3	177.7	198.9	126.9	152.3	177.7
OCV @ 25 deg C cells	217.5	261.0	304.5	348.0	217.5	261.0	304.5	348.0	217.5	261.0	304.5
OCV @ coldest temp (-40C, -40F amb)	269.5	323.4	377.3	431.2	269.5	323.4	377.3	431.2	269.5	323.4	377.3
OCV @ coldest temp (-30C, -22F amb)	261.5	313.8	366.1	418.4	261.5	313.8	366.1	418.4	261.5	313.8	366.1
OCV @ coldest temp (-20C, -4F amb)	253.5	304.2	354.9	405.6	253.5	304.2	354.9	405.6	253.5	304.2	354.9
OCV @ coldest temp (-10C, 14F amb)	245.5	294.6	343.7	392.6	245.5	294.6	343.7	392.6	245.5	294.6	343.7
OCV @ coldest temp (0C, 32F amb)	237.5	285.0	332.5	380.0	237.5	285.0	332.5	380.0	237.5	285.0	332.5
Power @ MPT (STC)	750	900	1050	1200	1500	1800	2100	2400	2250	2700	3150
PTC AC system power rating	615	738	861	984	1230	1476	1732	1979	1855	2226	2597
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		BP Solar		Power @ MPT		125.0 W			
Module Model		BP 3125		PTC Power Rating		110.0 W			
Voltage @ MPT (STC)		17.5 VDC		Temp Coeff of Vmp		0.08 V/DegC		(Vmp)	
Current @ MPT (STC)		7.1 ADC		Temp Coeff of Voc		0.08 V/DegC		(Voc)	
Current, short circuit		7.54 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F	
OCV @ 25 deg C cells		22.1 VDC							

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26	28
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13	14
Strings in Parallel	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	157.5	175.0	192.5	210.0	227.5	245.0	262.5	280.0	157.5	175.0	192.5	210.0	227.5	245.0
Vmp @ max amb temp (30C, 86F amb)	130.9	145.4	159.9	174.5	189.0	203.6	218.1	232.6	130.9	145.4	159.9	174.5	189.0	203.6
Vmp @ max amb temp (35C, 95F amb)	127.3	141.4	155.5	169.7	183.8	198.0	212.1	226.2	127.3	141.4	155.5	169.7	183.8	198.0
Vmp @ max amb temp (40C, 104F amb)	123.7	137.4	151.1	164.9	178.6	192.4	206.1	219.8	123.7	137.4	151.1	164.9	178.6	192.4
Vmp @ max amb temp (45C, 113F amb)	120.1	133.4	146.7	160.1	173.4	186.8	200.1	213.4	120.1	133.4	146.7	160.1	173.4	186.8
Vmp @ max amb temp (50C, 122F amb)	116.5	129.4	142.3	155.3	168.2	181.2	194.1	207.0	116.5	129.4	142.3	155.3	168.2	181.2
OCV @ 25 deg C cells	193.9	221.0	243.1	265.2	287.3	309.4	331.5	353.6	193.9	221.0	243.1	265.2	287.3	309.4
OCV @ coldest temp (-40C, -40F amb)	245.7	273.0	300.3	327.6	354.9	382.2	409.5	436.8	245.7	273.0	300.3	327.6	354.9	382.2
OCV @ coldest temp (-30C, -22F amb)	238.5	265.0	291.5	318.0	344.5	371.0	397.5	424.0	238.5	265.0	291.5	318.0	344.5	371.0
OCV @ coldest temp (-20C, -4F amb)	231.3	257.0	282.7	308.4	334.1	359.8	385.5	411.2	231.3	257.0	282.7	308.4	334.1	359.8
OCV @ coldest temp (-10C, 14F amb)	224.1	249.0	273.9	298.8	323.7	348.6	373.5	398.4	224.1	249.0	273.9	298.8	323.7	348.6
OCV @ coldest temp (0C, 32F amb)	216.9	241.0	265.1	289.2	313.3	337.4	361.5	385.6	216.9	241.0	265.1	289.2	313.3	337.4
Power @ MPT (STC)	1125	1250	1375	1500	1625	1750	1875	2000	2250	2500	2750	3000	3250	3500
PTC AC system power rating	922	1025	1127	1230	1332	1435	1546	1649	1855	2061	2267	2473	2679	2885
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		BP Solar		Power @ MPT		80.0 W			
Module Model		BP 585		PTC Power Rating		0.0 W*			
Voltage @ MPT (STC)		18 VDC		Temp Coeff of Vmp		0.08 V/DegC		(Vmp)	
Current @ MPT (STC)		4.72 ADC		Temp Coeff of Voc		0.08 V/DegC		(Voc)	
Current,									

Module Manufacturer		BP Solar		Power @ MPT		65.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output															
Module Model		BP 365		PTC Power Rating		57.6 W																			
Voltage @ MPT (STC)		17.6 VDC																							
Current @ MPT (STC)		3.67 ADC																							
Current, short circuit		3.99 ADC																							
OCV @ 25 deg C cells		22.1 VDC																							
										116.6 deg F															
Modules total in array		15	16	18	20	22	24	26	28	30	32	27	30	33	36	39	42	45	48						
Modules per string		15	16	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16						
Strings in Parallel		1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3						
Voltage @ MPT (STC)		264.0	261.6	158.4	176.0	193.6	211.2	228.8	246.4	264.0	261.6	158.4	176.0	193.6	211.2	228.8	246.4	264.0	261.6						
Vmpt @ max amb temp (30C, 86F amb)		219.6	234.2	131.8	146.4	161.0	175.7	190.3	205.0	219.8	234.2	131.8	146.4	161.0	175.7	190.3	205.0	219.6	219.6						
Vmpt @ max amb temp (35C, 95F amb)		213.6	227.8	128.2	142.4	156.6	170.9	185.1	199.4	213.6	227.8	128.2	142.4	156.6	170.9	185.1	199.4	213.6	227.8						
Vmpt @ max amb temp (40C, 104F amb)		207.6	221.4	124.6	138.4	152.2	166.1	179.9	193.8	207.6	221.4	124.6	138.4	152.2	166.1	179.9	193.8	207.6	221.4						
Vmpt @ max amb temp (45C, 113F amb)		201.6	215.0	121.0	134.4	147.8	161.3	174.7	188.2	201.6	215.0	121.0	134.4	147.8	161.3	174.7	188.2	201.6	215.0						
Vmpt @ max amb temp (50C, 122F amb)		195.6	208.6	117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6	117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6						
OCV @ 25 deg C cells		331.5	353.6	198.9	221.0	243.1	265.2	287.3	309.4	331.5	353.6	198.9	221.0	243.1	265.2	287.3	309.4	331.5	353.6						
OCV @ coldest temp (-40C, -40F amb)		409.5	436.8	245.7	273.0	300.3	327.6	354.9	382.2	409.5	436.8	245.7	273.0	300.3	327.6	354.9	382.2	409.5	436.8						
OCV @ coldest temp (-30C, -22F amb)		397.5	424.0	238.5	265.0	291.5	318.0	344.5	371.0	397.5	424.0	238.5	265.0	291.5	318.0	344.5	371.0	397.5	424.0						
OCV @ coldest temp (-20C, -4F amb)		385.5	411.2	231.3	257.0	282.7	308.4	334.1	359.8	385.5	411.2	231.3	257.0	282.7	308.4	334.1	359.8	385.5	411.2						
OCV @ coldest temp (-10C, 14F amb)		373.5	398.4	224.1	249.0	273.9	298.8	323.7	348.6	373.5	398.4	224.1	249.0	273.9	298.8	323.7	348.6	373.5	398.4						
OCV @ coldest temp (0C, 32F amb)		361.5	386.6	216.9	241.0	265.1	289.2	313.3	337.4	361.5	386.6	216.9	241.0	265.1	289.2	313.3	337.4	361.5	386.6						
Power @ MPT		975	1040	1170	1300	1430	1560	1690	1820	1950	2080	1755	1950	2145	2340	2535	2730	2925	3120						
PTC AC system power rating		799	852	959	1066	1172	1279	1393	1500	1607	1714	1466	1607	1768	1928	2089	2250	2411	2571						
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		BP Solar		Power @ MPT		60.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output															
Module Model		BP SX-60		PTC Power Rating		0.0 W																			
Voltage @ MPT (STC)		16.8 VDC																							
Current @ MPT (STC)		3.56 ADC																							
Current, short circuit		3.87 ADC																							
OCV @ 25 deg C cells		21 VDC																							
										116.6 deg F															
Modules total in array		18	20	22	24	26	28	30	32	27	30	33	36	39	42	45	48								
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16								
Strings in Parallel		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3								
Voltage @ MPT (STC)		151.2	168.0	184.8	201.6	218.4	235.2	252.0	268.8	151.2	168.0	184.8	201.6	218.4	235.2	252.0	268.8								
Vmpt @ max amb temp (30C, 86F amb)		124.6	138.4	152.2	166.1	179.9	193.8	207.6	221.4	124.6	138.4	152.2	166.1	179.9	193.8	207.6	221.4								
Vmpt @ max amb temp (35C, 95F amb)		121.0	134.4	147.8	161.3	174.7	188.2	201.6	215.0	121.0	134.4	147.8	161.3	174.7	188.2	201.6	215.0								
Vmpt @ max amb temp (40C, 104F amb)		117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6	117.4	130.4	143.4	156.5	169.5	182.6	208.6	215.0								
Vmpt @ max amb temp (45C, 113F amb)		113.8	126.4	139.0	151.7	164.3	177.0	189.6	202.2	113.8	126.4	139.0	151.7	164.3	177.0	189.6	202.2								
Vmpt @ max amb temp (50C, 122F amb)		110.2	122.4	134.6	146.9	159.1	171.4	183.6	195.8	110.2	122.4	134.6	146.9	159.1	171.4	183.6	195.8								
OCV @ 25 deg C cells		189.0	210.0	231.0	252.0	273.0	294.0	315.0	336.0	189.0	210.0	231.0	252.0	273.0	294.0	315.0	336.0								
OCV @ coldest temp (-40C, -40F amb)		235.8	262.0	288.2	314.4	340.6	366.8	393.0	419.2	235.8	262.0	288.2	314.4	340.6	366.8	393.0	419.2								
OCV @ coldest temp (-30C, -22F amb)		228.6	254.0	279.4	304.8	330.2	355.6	381.0	406.4	228.6	254.0	279.4	304.8	330.2	355.6	381.0	406.4								
OCV @ coldest temp (-20C, -4F amb)		221.4	246.0	270.6	295.2	319.8	344.4	369.0	393.6	221.4	246.0	270.6	295.2	319.8	344.4	369.0	393.6								
OCV @ coldest temp (-10C, 14F amb)		214.2	238.0	261.8	285.6	309.4	333.2	357.0	380.8	214.2	238.0	261.8	285.6	309.4	333.2	357.0	380.8								
OCV @ coldest temp (0C, 32F amb)		207.0	230.0	253.0	276.0	299.0	322.0	345.0	368.0	207.0	230.0	253.0	276.0	299.0	322.0	345.0	368.0								
Power @ MPT (STC)		1080	1200	1320	1440	1560	1680	1800	1920	1620	1800	1980	2160	2340	2520	2700	2880								
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		Canadian Solar Inc.		Power @ MPT		240.0 W		- PTC power rating unavailable		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output															
Module Model		CS6P-240		PTC Power Rating		0.0 W																			
Voltage @ MPT (STC)		30.4 VDC																							
Current @ MPT (STC)		7.91 ADC																							
Current, short circuit		8.61 ADC																							
OCV @ 25 deg C cells		37 VDC																							
										113 deg F															
Modules total in array		5	6	7	8	9	10	12	14	16															
Modules per string		5	6	7	8	9	5	6	7	8															
Strings in Parallel		1	1	1	1	1	1	2	2	2															
Voltage @ MPT (STC)		151.0	182.4	212.8	243.2	273.6	152.0	182.4	212.8	243.2															
Vmpt @ max amb temp (30C, 86F amb)		129.3	155.1	181.0	206.8	232.7	129.3	155.1	181.0	206.8															
Vmpt @ max amb temp (35C, 95F amb)		126.0	151.2	176.4	201.6	226.8	126.0	151.2	176.4	201.6															
Vmpt @ max amb temp (40C, 104F amb)		122.8	147.3	171.9	196.4	221.0	122.8	147.3	171.9	196.4															
Vmpt @ max amb temp (45C, 113F amb)		119.5	143.4	167.3	191.2	215.1	119.5	143.4	167.3	191.2															
Vmpt @ max amb temp (50C, 122F amb)		116.2	139.5	162.8	186.9	209.3	116.2	139.5	162.8	186.9															
OCV @ 25 deg C cells		185.0	222.0	259.0	296.0	333.0	185.0	222.0	259.0	296.0															
OCV @ coldest temp (-40C, -40F amb)		227.3	272.7	318.2	363.6	409.1	227.3	272.7	318.2	363.6															
OCV @ coldest temp (-30C, -22F amb)		220.8	264.9	309.1	353.2	397.4	220.8	264.9	309.1	353.2															
OCV @ coldest temp (-20C, -4F amb)		214.3	257.1	300.0	342.8	385.7	214.3	257.1	300.0	342.8															
OCV @ coldest temp (-10C, 14F amb)		207.8	249.9	292.8	335.7	378.6	207.8	249.9	292.8	335.7															
OCV @ coldest temp (0C, 32F amb)		201.3	241.5	281.8	322.0	362.3	201.3	241.5	281.8	322.0															
Power @ MPT (STC)		1200	1440	1680	1920	2160	2400	2880	3360	3840															
PTC AC system power rating		0	0	0	0	0	0	0	0	0															
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500															

Module Manufacturer		Canadian Solar Inc.		Power @ MPT		230.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output															
Module Model		CS6P-230		PTC Power Rating		204.4 W																			
Voltage @ MPT (STC)		29.8 VDC																							
Current @ MPT (STC)		7.71 ADC																							
Current, short circuit		8.34 ADC																							
OCV @ 25 deg C cells		36.8 VDC																							
										113 deg F															
Modules total in array		5	6	7	8	9	10	10	12	14															
Modules per string		5	6	7	8	9	5	6	7	8															
Strings in Parallel		1	1	1	1	1	1	2	2	2															
Voltage @ MPT (STC)		149.0	178.8	208.6	238.4	268.2	298.0	149.0	178.8	208.6															
Vmpt @ max amb temp (30C, 86F amb)		126.4	151.7	177.0	202.3	227.6	252.9	126.4	151.7	177.0															
Vmpt @ max amb temp (35C, 95F amb)		123.2	147.8	172.5	197.1	221.8	246.4	123.2	147.8	172.5															
Vmpt @ max amb temp (40C, 104F amb)		120.0	144.0	168.0	192.0	216.0	240.0	120.0	144.0	168.0															
Vmpt @ max amb temp (45C, 113F amb)																									

Module Manufacturer: Canadian Solar Inc., Module Model: CS6P-210, Voltage @ MPT (STC): 28.9 VDC, Current @ MPT (STC): 7.26 ADC, Power @ MPT: 210.0 W, PTC Power Rating: 185.1 W, Temp Coeff of Vmp: 0.127 V/ddegC, Temp Coeff of Vocv: 0.126 V/ddegC, NOCT (nom. cell temp): 45 deg C, 113 deg F. For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

	5	6	7	8	9	10	10	12	14	16
Modules total in array	5	6	7	8	9	10	10	12	14	16
Modules per string	5	6	7	8	9	10	5	6	7	8
Strings in Parallel	1	1	1	1	1	1	2	2	2	2
Voltage @ MPT (STC)	144.5	173.4	202.3	231.2	260.1	289.0	144.5	173.4	202.3	231.2
Vmpt @ max amb temp (30C, 86F amb)	122.3	146.7	171.2	195.6	220.1	244.6	122.3	146.7	171.2	195.6
Vmpt @ max amb temp (35C, 95F amb)	119.1	142.9	166.7	190.6	214.4	238.2	119.1	142.9	166.7	190.6
Vmpt @ max amb temp (40C, 104F amb)	115.9	139.1	162.3	185.5	208.7	231.9	115.9	139.1	162.3	185.5
Vmpt @ max amb temp (45C, 113F amb)	112.8	135.3	157.9	180.4	203.0	225.5	112.8	135.3	157.9	180.4
Vmpt @ max amb temp (50C, 122F amb)	109.6	131.5	153.4	175.3	197.2	219.2	109.6	131.5	153.4	175.3
OCV @ 25 deg C cells	182.0	215.4	254.8	291.2	327.6	364.0	182.0	215.4	254.8	291.2
OCV @ coldest temp (-40C, -40F amb)	223.0	267.5	312.1	356.7	401.3	445.9	223.0	267.5	312.1	356.7
OCV @ coldest temp (-30C, -22F amb)	216.7	260.0	303.3	346.6	390.0	433.3	216.7	260.0	303.3	346.6
OCV @ coldest temp (-20C, -4F amb)	210.4	252.4	294.5	336.6	378.6	420.7	210.4	252.4	294.5	336.6
OCV @ coldest temp (-10C, 14F amb)	204.1	244.9	285.7	326.5	367.3	408.1	204.1	244.9	285.7	326.5
OCV @ coldest temp (0C, 32F amb)	197.8	237.3	276.9	316.4	356.0	395.5	197.8	237.3	276.9	316.4
Power @ MPT (STC)	1050	1260	1470	1680	1890	2100	2100	2520	2940	3360
PTC AC system power rating	861	1033	1205	1377	1549	1731	1731	2077	2423	2769
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer: Canadian Solar Inc., Module Model: CS6P-200, Voltage @ MPT (STC): 28.9 VDC, Current @ MPT (STC): 6.93 ADC, Power @ MPT: 200.0 W, PTC Power Rating: 170.0 W, Temp Coeff of Vmp: 0.127 V/ddegC, Temp Coeff of Vocv: 0.126 V/ddegC, NOCT (nom. cell temp): 45 deg C, 113 deg F. For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

	5	6	7	8	9	10	10	12	14	16
Modules total in array	5	6	7	8	9	10	10	12	14	16
Modules per string	5	6	7	8	9	10	5	6	7	8
Strings in Parallel	1	1	1	1	1	1	2	2	2	2
Voltage @ MPT (STC)	144.5	173.4	202.3	231.2	260.1	289.0	144.5	173.4	202.3	231.2
Vmpt @ max amb temp (30C, 86F amb)	122.3	146.7	171.2	195.6	220.1	244.6	122.3	146.7	171.2	195.6
Vmpt @ max amb temp (35C, 95F amb)	119.1	142.9	166.7	190.6	214.4	238.2	119.1	142.9	166.7	190.6
Vmpt @ max amb temp (40C, 104F amb)	115.9	139.1	162.3	185.5	208.7	231.9	115.9	139.1	162.3	185.5
Vmpt @ max amb temp (45C, 113F amb)	112.8	135.3	157.9	180.4	203.0	225.5	112.8	135.3	157.9	180.4
Vmpt @ max amb temp (50C, 122F amb)	109.6	131.5	153.4	175.3	197.2	219.2	109.6	131.5	153.4	175.3
OCV @ 25 deg C cells	181.0	217.2	253.4	289.6	325.8	362.0	181.0	217.2	253.4	289.6
OCV @ coldest temp (-40C, -40F amb)	222.0	266.3	310.7	355.1	399.5	443.9	222.0	266.3	310.7	355.1
OCV @ coldest temp (-30C, -22F amb)	215.7	259.8	301.9	345.0	388.2	431.3	215.7	259.8	301.9	345.0
OCV @ coldest temp (-20C, -4F amb)	209.4	251.2	293.1	335.0	376.8	418.7	209.4	251.2	293.1	335.0
OCV @ coldest temp (-10C, 14F amb)	203.1	243.7	284.3	324.9	365.5	406.1	203.1	243.7	284.3	324.9
OCV @ coldest temp (0C, 32F amb)	196.8	236.1	275.5	314.8	354.2	393.5	196.8	236.1	275.5	314.8
Power @ MPT (STC)	1000	1200	1400	1600	1800	2000	2000	2400	2800	3200
PTC AC system power rating	819	982	1146	1310	1474	1646	1646	1975	2305	2634
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer: Canadian Solar Inc., Module Model: CS6P-190, Voltage @ MPT (STC): 28.8 VDC, Current @ MPT (STC): 6.6 ADC, Power @ MPT: 190.0 W, PTC Power Rating: 168.5 W, Temp Coeff of Vmp: 0.126 V/ddegC, Temp Coeff of Vocv: 0.126 V/ddegC, NOCT (nom. cell temp): 45 deg C, 113 deg F. For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

	5	6	7	8	9	10	10	12	14	16	15
Modules total in array	5	6	7	8	9	10	10	12	14	16	15
Modules per string	5	6	7	8	9	10	5	6	7	8	5
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	3
Voltage @ MPT (STC)	144.0	172.8	201.6	230.4	259.2	288.0	144.0	172.8	201.6	230.4	144.0
Vmpt @ max amb temp (30C, 86F amb)	122.0	146.3	170.7	195.1	219.5	243.9	122.0	146.3	170.7	195.1	122.0
Vmpt @ max amb temp (35C, 95F amb)	118.8	142.6	166.3	190.1	213.8	237.6	118.8	142.6	166.3	190.1	118.8
Vmpt @ max amb temp (40C, 104F amb)	115.7	138.8	161.9	185.0	208.2	231.3	115.7	138.8	161.9	185.0	115.7
Vmpt @ max amb temp (45C, 113F amb)	112.5	135.0	157.5	180.0	202.5	225.0	112.5	135.0	157.5	180.0	112.5
Vmpt @ max amb temp (50C, 122F amb)	109.4	131.2	153.4	175.6	197.8	219.9	109.4	131.2	153.4	175.6	109.4
OCV @ 25 deg C cells	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	180.0
OCV @ coldest temp (-40C, -40F amb)	221.0	265.1	309.3	353.5	397.7	441.9	221.0	265.1	309.3	353.5	221.0
OCV @ coldest temp (-30C, -22F amb)	214.7	257.6	300.5	343.4	386.4	429.3	214.7	257.6	300.5	343.4	214.7
OCV @ coldest temp (-20C, -4F amb)	208.4	250.0	291.7	333.4	375.0	416.7	208.4	250.0	291.7	333.4	208.4
OCV @ coldest temp (-10C, 14F amb)	202.1	242.6	282.9	323.2	363.5	403.8	202.1	242.6	282.9	323.2	202.1
OCV @ coldest temp (0C, 32F amb)	195.8	234.9	274.1	313.2	352.4	391.5	195.8	234.9	274.1	313.2	195.8
Power @ MPT (STC)	950	1140	1330	1520	1710	1900	1900	2280	2660	3040	2850
PTC AC system power rating	779	935	1091	1247	1403	1567	1567	1880	2194	2507	2351
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer: Canadian Solar Inc., Module Model: CS6P-180, Voltage @ MPT (STC): 28.7 VDC, Current @ MPT (STC): 6.26 ADC, Power @ MPT: 180.0 W, PTC Power Rating: 159.4 W, Temp Coeff of Vmp: 0.126 V/ddegC, Temp Coeff of Vocv: 0.126 V/ddegC, NOCT (nom. cell temp): 45 deg C, 113 deg F. For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

	5	6	7	8	9	12	14	16	18	18
Modules total in array	5	6	7	8	9	12	14	16	18	18
Modules per string	6	7	8	9	6	12	14	16	18	9
Strings in Parallel	1	1	1	1	1	2	2	2	2	3
Voltage @ MPT (STC)	172.2	200.9	229.6	258.3	287.0	356.4	425.1	493.8	562.5	562.5
Vmpt @ max amb temp (30C, 86F amb)	145.7	170.0	194.3	218.6	242.9	303.6	364.3	425.0	485.7	485.7
Vmpt @ max amb temp (35C, 95F amb)	142.0	165.6	189.3	212.9	236.5	297.2	357.9	418.6	479.3	479.3
Vmpt @ max amb temp (40C, 104F amb)	138.2	161.2	184.2	207.3	230.3	291.0	351.8	412.7	473.6	473.6
Vmpt @ max amb temp (45C, 113F amb)	134.4	156.8	179.2	201.6	224.0	284.7	345.5	406.4	467.3	467.3
Vmpt @ max amb temp (50C, 122F amb)	130.6	152.4	174.2	195.9	218.4	277.4	338.2	400.0	461.0	461.0
OCV @ 25 deg C cells	215.4	251.3	287.2	323.1	359.0	451.2	543.4	635.6	727.8	727.8
OCV @ coldest temp (-40C, -40F amb)	264.5	308.6	352.7	396.8	440.9	533.1	625.3	717.5	809.7	809.7
OCV @ coldest temp (-30C, -22F amb)	257.0	299.8	342.6	385.5	428.4	520.6	612.8	705.0	797.2	797.2
OCV @ coldest temp (-20C, -4F amb)	249.4	291.0	332.6	374.1	415.6	507.8	599.9	692.1	784.3	784.3
OCV @ coldest temp (-10C, 14F amb)	241.9	282.2	322.5	362.8	403.1	490.2	582.3	674.5	766.7	766.7
OCV @ coldest temp (0C, 32F amb)	234.3	273.4	312.4	351.5	390.6	477.7	569.8	661.9	754.0	754.0
Power @ MPT (STC)	1080	1260	1440	1620	1800	2220	2640	3060	3480	3480
PTC AC system power rating	885	1032	1180	1327	1476	1836	2208	2580	2952	2952
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer: Canadian Solar Inc., Module Model: CS5A-180, Voltage @ MPT (STC): 34.4 VDC, Current @ MPT (STC): 5.23 ADC, Power @ MPT: 180.0 W, PTC Power Rating: 157.1 W, Temp Coeff of Vmp: 0.126 V/ddegC, Temp Coeff of Vocv: 0.158 V/ddegC, NOCT (nom. cell temp): 45 deg C, 113 deg F. For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

	5	6	7	8	10	12	14	16	15	18
Modules total in array	5	6	7	8	10	12	14	16	15	18
Modules per string	5	6	7	8	5	6	7	8	5	6
Strings in Parallel	1	1	1	1	2	2	2	2	3	3
Voltage @ MPT (STC)	172.0	206.4	240.8	275.2	344.0	412.8	481.6	550.4	550.4	672.0
Vmpt @ max amb temp (30C, 86F amb)	144.4	173.2	202.1	231.0	290.4	349.8	409.2	468.6	468.6	566.4
Vmpt @ max amb temp (35C, 95F amb)	140.4	168.5	196.6	224.6	284.0	343.4	402.8	462.2	462.2	560.4
Vmpt @ max amb temp (40C, 104F amb)	136.5	163.7	191.0	218.3	277.6	337.0	396.4	455.8	455.8	558.6
Vmpt @ max amb temp (45C, 113F amb)	132.5	159.0	185.5	212.0	271.2	330.6	390.0	449.4	449.4	554.4
Vmpt @ max amb temp (50C, 122F amb)	128.6	154.3	180.0	205.7	264.8	324.2	383.6	443.0	443.0	548.4
OCV @ 25 deg C cells	216.0	259.2	302.4	345.6	432.0	518.4	604.8	691.2	691.2	844.8
OCV @ coldest temp (-40C, -40F amb)	267.4	320.8	374.3	427.8	534.7	641.6	748.5	855.4	855.4	1036.8
OCV @ coldest temp (-30C, -22F amb)	259.5	311.3	363.2	415.1	512.0	618.9	725.8	832.7	832.7	1013.3
OCV @ coldest temp (-20C, -4F amb)	251.6	301.9	352.2	402.5	500.0	607.0	714.0	821.0	821.0	1000.0
OCV @ coldest temp (-10C, 14F amb)	243.7	292.4	341.1	389.8	488.0	595.0	702.0	809.0	809.0	986.7
OCV @ coldest temp (0C, 32F amb)	235.8	282.9	330.1	377.2	476.0	583.0	690.0	797.0	797.0	974.4
Power @ MPT (STC)	900	1080	1260	1440	1800	2160	2520	2880	2700	3240
PTC AC system power rating	727	872	1017	1163	1453	1744	2034	2324	2192	2630
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	Canadian Solar Inc.										Power @ MPT		170.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model	CS6P-170										PTC Power Rating		150.4 W			
Voltage @ MPT (STC)	28.7 VDC										Temp Coeff of Vmp _{pt}		0.125 V/degC			(Vmp _{pt})
Current @ MPT (STC)	5.93 ADC										Temp Coeff of Voc _{pt}		0.125 V/degC			(Voc _{pt})
Current, short circuit	6.62 ADC										NOCT (nom. cell temp)		45 deg C			113 deg F
OCV @ 25 deg C cells	35.8 VDC															
Modules total in array	6	7	8	9	10	12	14	16	18	18						
Modules per string	6	7	8	9	10	12	14	16	18	18						
Strings in Parallel	1	1	1	1	1	2	2	2	2	3						
Voltage @ MPT (STC)	172.2	200.9	229.6	258.3	272.2	200.9	229.6	258.3	272.2							
Vmp _{pt} @ max amb temp (30C, 86F amb)	145.0	170.3	194.6	218.9	146.0	170.3	194.6	218.9	146.0							
Vmp _{pt} @ max amb temp (35C, 95F amb)	142.2	165.9	189.6	213.3	142.2	165.9	189.6	213.3	142.2							
Vmp _{pt} @ max amb temp (40C, 104F amb)	138.5	161.5	184.6	207.7	138.5	161.5	184.6	207.7	138.5							
Vmp _{pt} @ max amb temp (45C, 113F amb)	134.7	157.2	179.6	202.1	134.7	157.2	179.6	202.1	134.7							
Vmp _{pt} @ max amb temp (50C, 122F amb)	131.0	152.8	174.6	196.4	131.0	152.8	174.6	196.4	131.0							
OCV @ 25 deg C cells	214.8	250.6	286.4	322.2	214.8	250.6	286.4	322.2	214.8							
OCV @ coldest temp (-40C, -40F amb)	263.6	307.5	351.4	395.3	263.6	307.5	351.4	395.3	263.6							
OCV @ coldest temp (-30C, -22F amb)	256.1	298.7	341.4	384.1	256.1	298.7	341.4	384.1	256.1							
OCV @ coldest temp (-20C, -4F amb)	248.6	290.0	331.4	372.8	248.6	290.0	331.4	372.8	248.6							
OCV @ coldest temp (-10C, 14F amb)	241.1	281.2	321.4	361.6	241.1	281.2	321.4	361.6	241.1							
OCV @ coldest temp (0C, 32F amb)	233.6	272.5	311.4	350.3	233.6	272.5	311.4	350.3	233.6							
Power @ MPT (STC)	1020	1190	1360	1530	2040	2380	2720	3060	3060							
PTC AC system power rating	835	974	1113	1252	1669	1958	2238	2518	2518							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer	Canadian Solar Inc.										Power @ MPT		170.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model	CS5A-170										PTC Power Rating		148.1 W			
Voltage @ MPT (STC)	34.4 VDC										Temp Coeff of Vmp _{pt}		0.158 V/degC			(Vmp _{pt})
Current @ MPT (STC)	4.95 ADC										Temp Coeff of Voc _{pt}		0.158 V/degC			(Voc _{pt})
Current, short circuit	5.38 ADC										NOCT (nom. cell temp)		45 deg C			113 deg F
OCV @ 25 deg C cells	43.2 VDC															
Modules total in array	5	6	7	8	10	12	14	16	15	18						
Modules per string	5	6	7	8	10	12	14	16	15	18						
Strings in Parallel	1	1	1	1	1	2	2	2	2	3						
Voltage @ MPT (STC)	172.0	206.4	240.8	275.2	172.0	206.4	240.8	275.2	172.0	206.4						
Vmp _{pt} @ max amb temp (30C, 86F amb)	144.4	173.2	202.1	231.0	144.4	173.2	202.1	231.0	144.4	173.2						
Vmp _{pt} @ max amb temp (35C, 95F amb)	140.4	168.5	196.6	224.6	140.4	168.5	196.6	224.6	140.4	168.5						
Vmp _{pt} @ max amb temp (40C, 104F amb)	135.5	163.7	191.0	218.3	135.5	163.7	191.0	218.3	135.5	163.7						
Vmp _{pt} @ max amb temp (45C, 113F amb)	132.5	159.0	185.5	212.0	132.5	159.0	185.5	212.0	132.5	159.0						
Vmp _{pt} @ max amb temp (50C, 122F amb)	128.6	154.3	180.0	205.7	128.6	154.3	180.0	205.7	128.6	154.3						
OCV @ 25 deg C cells	216.0	259.2	302.4	345.6	216.0	259.2	302.4	345.6	216.0	259.2						
OCV @ coldest temp (-40C, -40F amb)	267.4	320.8	374.3	427.8	267.4	320.8	374.3	427.8	267.4	320.8						
OCV @ coldest temp (-30C, -22F amb)	259.5	313.3	363.2	415.1	259.5	313.3	363.2	415.1	259.5	313.3						
OCV @ coldest temp (-20C, -4F amb)	251.6	301.9	352.2	402.5	251.6	301.9	352.2	402.5	251.6	301.9						
OCV @ coldest temp (-10C, 14F amb)	243.7	292.4	341.1	389.8	243.7	292.4	341.1	389.8	243.7	292.4						
OCV @ coldest temp (0C, 32F amb)	235.8	282.9	330.1	377.2	235.8	282.9	330.1	377.2	235.8	282.9						
Power @ MPT (STC)	850	1020	1190	1360	1700	2040	2380	2720	2550	3060						
PTC AC system power rating	959	1122	1296	1470	1844	2198	2544	2892	2696	2479						
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer	CEEG										Power @ MPT		190.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model	SST 190-72M										PTC Power Rating		163.0 W			
Voltage @ MPT (STC)	36.2 VDC										Temp Coeff of Vmp _{pt}		0.134 V/degC			(Vmp _{pt})
Current @ MPT (STC)	5.25 ADC										Temp Coeff of Voc _{pt}		0.134 V/degC			(Voc _{pt})
Current, short circuit	5.5 ADC										NOCT (nom. cell temp)		47 deg C			116.6 deg F
OCV @ 25 deg C cells	45 VDC															
Modules total in array	6	7	8	10	12	14	16	15	18							
Modules per string	6	7	8	10	12	14	16	15	18							
Strings in Parallel	1	1	1	1	1	2	2	2	3	3						
Voltage @ MPT (STC)	217.2	253.4	289.6	325.8	217.2	253.4	289.6	325.8	217.2	253.4						
Vmp _{pt} @ max amb temp (30C, 86F amb)	187.5	218.7	249.9	281.1	187.5	218.7	249.9	281.1	187.5	218.7						
Vmp _{pt} @ max amb temp (35C, 95F amb)	183.4	214.0	244.6	275.8	183.4	214.0	244.6	275.8	183.4	214.0						
Vmp _{pt} @ max amb temp (40C, 104F amb)	179.4	209.3	239.2	270.5	179.4	209.3	239.2	270.5	179.4	209.3						
Vmp _{pt} @ max amb temp (45C, 113F amb)	175.4	204.6	233.9	264.2	175.4	204.6	233.9	264.2	175.4	204.6						
Vmp _{pt} @ max amb temp (50C, 122F amb)	171.4	199.9	228.5	258.1	171.4	199.9	228.5	258.1	171.4	199.9						
OCV @ 25 deg C cells	270.0	315.0	360.0	405.0	270.0	315.0	360.0	405.0	270.0	315.0						
OCV @ coldest temp (-40C, -40F amb)	322.3	376.0	429.7	483.4	322.3	376.0	429.7	483.4	322.3	376.0						
OCV @ coldest temp (-30C, -22F amb)	314.2	366.6	419.0	471.4	314.2	366.6	419.0	471.4	314.2	366.6						
OCV @ coldest temp (-20C, -4F amb)	306.2	357.2	408.2	459.2	306.2	357.2	408.2	459.2	306.2	357.2						
OCV @ coldest temp (-10C, 14F amb)	298.1	347.8	397.5	448.1	298.1	347.8	397.5	448.1	298.1	347.8						
OCV @ coldest temp (0C, 32F amb)	290.1	338.5	386.8	437.1	290.1	338.5	386.8	437.1	290.1	338.5						
Power @ MPT (STC)	1140	1330	1520	1700	2280	2660	3040	2850	3420							
PTC AC system power rating	905	1055	1206	1358	1809	2111	2425	2274	2729							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer	CEEG										Power @ MPT		155.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model	SST 185-72M										PTC Power Rating		158.5 W			
Voltage @ MPT (STC)	35.8 VDC										Temp Coeff of Vmp _{pt}		0.134 V/degC			(Vmp _{pt})
Current @ MPT (STC)	5.17 ADC										Temp Coeff of Voc _{pt}		0.134 V/degC			(Voc _{pt})
Current, short circuit	5.48 ADC										NOCT (nom. cell temp)		47 deg C			116.6 deg F
OCV @ 25 deg C cells	44.8 VDC															
Modules total in array	5	6	7	8	10	12	14	16	15	18						
Modules per string	5	6	7	8	10	12	14	16	15	18						
Strings in Parallel	1	1	1	1	1	2	2	2	2	3						
Voltage @ MPT (STC)	179.0	214.8	250.6	286.4	179.0	214.8	250.6	286.4	179.0	214.8						
Vmp _{pt} @ max amb temp (30C, 86F amb)	154.2	185.1	215.9	246.7	154.2	185.1	215.9	246.7	154.2	185.1						
Vmp _{pt} @ max amb temp (35C, 95F amb)	150.9	181.0	211.2	241.4	150.9	181.0	211.2	241.4	150.9	181.0						
Vmp _{pt} @ max amb temp (40C, 104F amb)	147.5	177.0	206.5	236.0	147.5	177.0	206.5	236.0	147.5	177.0						
Vmp _{pt} @ max amb temp (45C, 113F amb)	144.2	173.0	201.8	230.7	144.2	173.0	201.8	230.7	144.2	173.0						
Vmp _{pt} @ max amb temp (50C, 122F amb)	140.8	169.0	197.1	225.3	140.8	169.0	197.1	225.3	140.8	169.0						
OCV @ 25 deg C cells	224.0	268.8	313.6	358.4	224.0	268.8	313.6	358.4	224.0	268.8						
OCV @ coldest temp (-40C, -40F amb)	267.6	321.1	374.6	428.1	267.6	321.1	374.6	428.1	267.6	321.1						
OCV @ coldest temp (-30C, -22F amb)	260.9	315.0	365.2	417.4	260.9	315.0	365.2	417								

Module Manufacturer												
Centennial Solar												
Module Model												
CS 230												
Power @ MPT												
PTC Power Rating												
230.0 W												
Voltage @ MPT (STC)												
30.1 VDC												
Current @ MPT (STC)												
7.64 ADC												
Temp Coeff of Vmp												
0.138 V/degC (Vmp)												
Temp Coeff of Voc												
0.138 V/degC (Voc)												
NOCT (nom. cell temp)												
45 deg C												
113 deg F												
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Modules total in array												
5 6 7 8 9 10 10 12 14 15												
Modules per string												
5 7 8 9 10 5 6 7 5												
Strings in Parallel												
1 1 1 1 1 1 2 2 2 3												
Voltage @ MPT (STC)												
150.5 180.6 210.7 240.8 270.9 301.0 150.5 180.6 210.7 150.5												
Vmp @ max amb temp (30C, 86F amb)												
125.4 151.6 176.9 202.2 227.4 252.7 126.4 151.6 176.9 126.4												
Vmp @ max amb temp (35C, 95F amb)												
122.3 147.5 172.1 196.6 221.2 245.8 122.9 147.5 172.1 122.9												
Vmp @ max amb temp (40C, 104F amb)												
119.5 143.3 167.2 191.1 215.0 239.9 119.5 143.3 167.2 119.5												
Vmp @ max amb temp (45C, 113F amb)												
116.0 139.2 162.4 185.6 208.8 232.0 116.0 139.2 162.4 116.0												
Vmp @ max amb temp (50C, 122F amb)												
112.6 135.1 157.6 180.1 202.6 225.1 112.6 135.1 157.6 112.6												
OCV @ 25 deg C cells												
181.5 217.8 254.1 290.4 326.7 363.0 181.5 217.8 254.1 181.5												
OCV @ coldest temp (-40C, -40F amb)												
226.4 271.6 316.9 362.2 407.4 452.7 226.4 271.6 316.9 226.4												
OCV @ coldest temp (-30C, -22F amb)												
219.5 263.3 307.2 351.1 395.0 439.9 219.5 263.3 307.2 219.5												
OCV @ coldest temp (-20C, -4F amb)												
212.6 255.1 297.6 340.1 382.6 425.1 212.6 255.1 297.6 212.6												
OCV @ coldest temp (-10C, 14F amb)												
205.7 246.8 287.9 329.0 370.2 411.3 205.7 246.8 287.9 205.7												
OCV @ coldest temp (0C, 32F amb)												
198.8 238.5 278.3 318.0 357.8 397.5 198.8 238.5 278.3 198.8												
Power @ MPT (STC)												
1190 1380 1610 1840 2070 2300 1190 1380 1610 1190												
PTC AC system power rating												
0 0 0 0 0 0 0 0 0 0												
Suggested inverter												
PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500												

Module Manufacturer												
Centennial Solar												
Module Model												
CS 220												
Power @ MPT												
PTC Power Rating												
220.0 W												
Voltage @ MPT (STC)												
30.1 VDC												
Current @ MPT (STC)												
7.31 ADC												
Temp Coeff of Vmp												
0.138 V/degC (Vmp)												
Temp Coeff of Voc												
0.138 V/degC (Voc)												
NOCT (nom. cell temp)												
45 deg C												
113 deg F												
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Modules total in array												
5 6 7 8 9 10 10 12 14 15												
Modules per string												
5 7 8 9 10 5 6 7 5												
Strings in Parallel												
1 1 1 1 1 1 2 2 2 3												
Voltage @ MPT (STC)												
150.5 180.6 210.7 240.8 270.9 301.0 150.5 180.6 210.7 150.5												
Vmp @ max amb temp (30C, 86F amb)												
126.4 151.6 176.9 202.2 227.4 252.7 126.4 151.6 176.9 126.4												
Vmp @ max amb temp (35C, 95F amb)												
122.9 147.5 172.1 196.6 221.2 245.8 122.9 147.5 172.1 122.9												
Vmp @ max amb temp (40C, 104F amb)												
119.5 143.3 167.2 191.1 215.0 239.9 119.5 143.3 167.2 119.5												
Vmp @ max amb temp (45C, 113F amb)												
116.0 139.2 162.4 185.6 208.8 232.0 116.0 139.2 162.4 116.0												
Vmp @ max amb temp (50C, 122F amb)												
112.6 135.1 157.6 180.1 202.6 225.1 112.6 135.1 157.6 112.6												
OCV @ 25 deg C cells												
181.5 217.8 254.1 290.4 326.7 363.0 181.5 217.8 254.1 181.5												
OCV @ coldest temp (-40C, -40F amb)												
226.4 271.6 316.9 362.2 407.4 452.7 226.4 271.6 316.9 226.4												
OCV @ coldest temp (-30C, -22F amb)												
219.5 263.3 307.2 351.1 395.0 439.9 219.5 263.3 307.2 219.5												
OCV @ coldest temp (-20C, -4F amb)												
212.6 255.1 297.6 340.1 382.6 425.1 212.6 255.1 297.6 212.6												
OCV @ coldest temp (-10C, 14F amb)												
205.7 246.8 287.9 329.0 370.2 411.3 205.7 246.8 287.9 205.7												
OCV @ coldest temp (0C, 32F amb)												
198.8 238.5 278.3 318.0 357.8 397.5 198.8 238.5 278.3 198.8												
Power @ MPT (STC)												
1100 1320 1540 1760 1980 2200 1100 1320 1540 1100												
PTC AC system power rating												
0 0 0 0 0 0 0 0 0 0												
Suggested inverter												
PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500												

Module Manufacturer												
Centennial Solar												
Module Model												
CS 130												
Power @ MPT												
PTC Power Rating												
130.0 W												
Voltage @ MPT (STC)												
17.89 VDC												
Current @ MPT (STC)												
7.27 ADC												
Temp Coeff of Vmp												
0.0726 V/degC (Vmp)												
Temp Coeff of Voc												
0.0726 V/degC (Voc)												
NOCT (nom. cell temp)												
46 deg C												
114.8 deg F												
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Modules total in array												
9 10 11 12 13 14 15 16 18 20 22 24 26												
Modules per string												
9 10 11 12 13 14 15 16 9 10 11 12 13												
Strings in Parallel												
1 1 1 1 1 1 2 2 2 2 2 2 2 2												
Voltage @ MPT (STC)												
161.0 178.9 196.8 214.7 232.6 250.5 268.4 286.2 161.0 178.9 196.8 214.7 232.6												
Vmp @ max amb temp (30C, 86F amb)												
137.5 152.8 168.0 183.3 198.6 213.9 229.1 244.4 137.5 152.8 168.0 183.3 198.6												
Vmp @ max amb temp (35C, 95F amb)												
134.2 149.1 164.0 179.0 193.9 208.8 223.7 238.6 134.2 149.1 164.0 179.0 193.9												
Vmp @ max amb temp (40C, 104F amb)												
131.0 145.5 160.1 174.6 189.2 203.7 218.3 232.8 131.0 145.5 160.1 174.6 189.2												
Vmp @ max amb temp (45C, 113F amb)												
127.7 141.9 156.1 170.2 184.4 198.6 212.8 227.0 127.7 141.9 156.1 170.2 184.4												
Vmp @ max amb temp (50C, 122F amb)												
124.4 138.2 152.7 166.9 181.1 195.4 209.7 224.0 124.4 138.2 152.7 166.9 181.1												
OCV @ 25 deg C cells												
198.1 220.1 242.1 264.1 286.1 308.1 330.2 352.2 198.1 220.1 242.1 264.1 286.1												
OCV @ coldest temp (-40C, -40F amb)												
240.6 267.3 294.0 320.7 347.5 374.2 400.9 427.7 240.6 267.3 294.0 320.7 347.5												
OCV @ coldest temp (-30C, -22F amb)												
234.0 260.0 286.0 312.0 338.0 364.0 390.0 416.0 234.0 260.0 286.0 312.0 338.0												
OCV @ coldest temp (-20C, -4F amb)												
227.5 252.8 278.0 303.3 328.6 353.9 379.2 404.4 227.5 252.8 278.0 303.3 328.6												
OCV @ coldest temp (-10C, 14F amb)												
221.0 245.6 270.1 294.7 319.1 343.7 368.3 392.8 221.0 245.6 270.1 294.6 319.2												
OCV @ coldest temp (0C, 32F amb)												
214.4 238.3 262.1 285.9 309.7 333.6 357.4 381.2 214.4 238.3 262.1 285.9 309.7												
Power @ MPT (STC)												
1170 1300 1430 1560 1690 1820 1950 2080 1170 1300 1430 1560 1690 1820 1950 2080												
PTC AC system power rating												
0 0 0 0 0 0 0 0 0 0 0 0 0 0												
Suggested inverter												
PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500												

Module Manufacturer												
Centron Solar												
Module Model												
CS-P-280-DJ												
Power @ MPT												
PTC Power Rating												
280.0 W												
Voltage @ MPT (STC)												
36.3 VDC												
Current @ MPT (STC)												
7.93 ADC												
Temp Coeff of Vmp												
0.153 V/degC (Vmp)												
Temp Coeff of Voc												
0.153 V/degC (Voc)												
NOCT (nom. cell temp)												
48 deg C												
118.4 deg F												
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Modules total in array												
5 6 7 8 10 12												
Modules per string												
5 6 7 8 5 6												
Strings in Parallel												
1 1 1 1 2 2												
Voltage @ MPT (STC)												
176.5 211.8 247.1 282.4 176.5 211.8												
Vmp @ max amb temp (30C, 86F amb)												
147.4 176.9 206.4 235.9 147.4 176.9												
Vmp @ max amb temp (35C, 95F amb)												
143.6 172.3 201.0 229.8 143.6 172.3												
Vmp @ max amb temp (40C, 104F amb)												
139.8 167.7 195.7 223.6 139.8 167.7												
Vmp @ max amb temp (45C, 113F amb)												
136.0 163.1 190.3 217.5 136.0 163.1												
Vmp @ max amb temp (50C, 122F amb)												
132.1 158.6 185.0 211.4 132.1 158.6												
OCV @ 25 deg C cells												
218.9 262.6 306.4 350.2 218.9 262.6												
OCV @ coldest temp (-40C, -40F amb)												
265.6 322.3 376.0 429.7 265.6 322.3												
OCV @ coldest temp (-30C, -22F amb)												
260.9 315.1 365.3 417.5 260.9 315.1												
OCV @ coldest temp (-20C, -4F amb)												
253.3 303.9 354.6 405.2 253.3 303.9												
OCV @ coldest temp (-10C, 14F amb)												
245.6 294.8 343.9 393.0 245.6 294.8												
OCV @ coldest temp (0C, 32F amb)												
238.0 285.6 333.2 380.8 238.0 285.6												
Power @ MPT (STC)												
1400 1680 1960 2240 2800 3360												
PTC AC system power rating												
0 0 0 0 0 0												
Suggested inverter												
PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500												

Module Manufacturer												
Centron Solar												
Module Model												
CS-S-180-DJ												
Power @ MPT												
PTC Power Rating												
180.0 W												
Voltage @ MPT (STC)												
36.2 VDC												
Current @ MPT (STC)												
4.97 ADC												
Temp Coeff of Vmp												
0.15 V/degC (Vmp)												
Temp Coeff of Voc												
0.15 V/degC (Voc)												
NOCT (nom. cell temp)												
48 deg C												
118.4 deg F												
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Modules total in array												
5 6 7 8 10 12 14 16 15 18												
Modules per string												
5 6 7 8 5 6 7 8 5 6												
Strings in Parallel												
1 1 1 1 2 2 2 2 3 3												
Voltage @ MPT (STC)												
181.0 217.2 253.4 289.6 181.0 217.2 253.4 289.6 181.0 217.2												
Vmp @ max amb temp (30C, 86F amb)												
152.5 183.0 213.5 244.0 152.5 183.0 213.5 244.0 152.5 183.0												
Vmp @ max amb temp (35C, 95F amb)												
148.8 178.5 208.3 238.0 148.8 178.5 208.3 238.0 148.8 178.5												
Vmp @ max amb temp (40C, 104F amb)												
145.0 174.0 203.0 232.0 145.0 174.0 203.0 232.0 145.0 174.0												
Vmp @ max amb temp (45C, 113F amb)												
141.3 169.5 197.8 226.0 141.3 169.5 197.8 226.0 141.3 169.5												
Vmp @ max amb temp (50C, 122F amb)												
137.5 165.0 192.5 220.0 137.5 165.0 192.5 220.0 137.5 165.0												
OCV @ 25 deg C cells												
221.0 265.2 309.4 353.6 221.0 265.2 309.4 353.6 221.0 265.2												
OCV @ coldest temp (-40C, -40F amb)												
269.8 323.7 377.7 431.6 269.8 323.7 377.7 431.6 269.8 323.7												
OCV @ coldest temp (-30C, -22F amb)												
262.3 314.7 367.2 419.6 262.3 314.7 367.2 419.6 262.3 314.7												
OCV @ coldest temp (-20C, -4F amb)												
254.8 305.7 356.7 407.6 254.8 305.7 356.7 407.6 254.8 305.7												
OCV @ coldest temp (-10C, 14F amb)												
247.3 296.7 346.2 396.2 247.3 296.7 346.2 396.2 247.3 296.7												
OCV @ coldest temp (0C, 32F amb)												
239.8 287.7 335.7 383.6 239.8 287.7 335.7 383.6 239.8 287.7												
Power @ MPT (STC)												
900 1080 1260 1440 1800 2160 2520 2880 2700 3240												
PTC AC system power rating												
0 0 0 0 0 0 0 0 0 0												
Suggested inverter												
PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500 PVI 2500 PVI 2500												

Module Manufacturer		Centron Solar				Power @ MPT		175.0 W													
Module Model		CS-S-175-DJ				PTC Power Rating		0.0 W				For Vmp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)		35.8 VDC				Temp Coeff of Vmp		0.15 V/degC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).									
Current @ MPT (STC)		4.89 ADC				Temp Coeff of Vocv		0.15 V/degC		(Vocv)		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit		5.25 ADC				NOCT (nom. cell temp)		48 deg C		118.4 deg F											
OCV @ 25 deg C cells		44.2 VDC																			
Modules total in array	5	6	7	8	10	12	14	16	15	18											
Modules per string	5	7	8	5	6	7	8	5	6	9											
Strings in Parallel	1	1	1	1	2	2	2	2	3	3											
Voltage @ MPT (STC)	179.0	214.8	250.6	286.4	179.0	214.8	250.6	286.4	179.0	214.8											
Vmp @ max amp temp (30C, 86F amb)	150.5	180.6	210.7	240.8	150.5	180.6	210.7	240.8	150.5	180.6											
Vmp @ max amp temp (35C, 95F amb)	146.8	176.1	205.5	234.8	146.8	176.1	205.5	234.8	146.8	176.1											
Vmp @ max amp temp (40C, 104F amb)	143.0	171.6	200.2	228.8	143.0	171.6	200.2	228.8	143.0	171.6											
Vmp @ max amp temp (45C, 113F amb)	139.3	167.1	195.0	222.8	139.3	167.1	195.0	222.8	139.3	167.1											
Vmp @ max amp temp (50C, 122F amb)	135.5	162.6	189.7	216.8	135.5	162.6	189.7	216.8	135.5	162.6											
OCV @ 25 deg C cells	221.0	265.2	309.4	353.6	221.0	265.2	309.4	353.6	221.0	265.2											
OCV @ coldest temp (-40C, -40F amb)	269.8	323.7	377.7	431.6	269.8	323.7	377.7	431.6	269.8	323.7											
OCV @ coldest temp (-30C, -22F amb)	262.3	314.7	367.2	419.6	262.3	314.7	367.2	419.6	262.3	314.7											
OCV @ coldest temp (-20C, -4F amb)	254.8	305.7	356.7	407.6	254.8	305.7	356.7	407.6	254.8	305.7											
OCV @ coldest temp (-10C, 14F amb)	247.3	296.7	346.2	395.6	247.3	296.7	346.2	395.6	247.3	296.7											
OCV @ coldest temp (0C, 32F amb)	239.8	287.7	335.7	383.6	239.8	287.7	335.7	383.6	239.8	287.7											
Power @ MPT (STC)	875	1050	1225	1400	1750	2100	2450	2800	2625	3150											
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0											
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer		Day4 Energy				Power @ MPT		180.0 W													
Module Model		48MC				PTC Power Rating		160.6 W				For Vmp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)		23.7 VDC				Temp Coeff of Vmp		0.11 V/degC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).									
Current @ MPT (STC)		7.6 ADC				Temp Coeff of Vocv		0.11 V/degC		(Vocv)		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit		8.1 ADC				NOCT (nom. cell temp)		46 deg C		114.8 deg F											
OCV @ 25 deg C cells		29.4 VDC																			
Modules total in array	7	8	9	10	11	12	14	16	18												
Modules per string	7	9	10	11	7	9	10	11	8	9											
Strings in Parallel	1	1	1	1	1	1	2	2	2	2											
Voltage @ MPT (STC)	165.9	189.6	213.3	237.0	260.7	284.4	165.9	189.6	213.3												
Vmp @ max amp temp (30C, 86F amb)	138.2	157.9	177.7	197.4	217.1	236.9	138.2	157.9	177.7												
Vmp @ max amp temp (35C, 95F amb)	134.3	153.5	172.7	191.9	211.1	230.3	134.3	153.5	172.7												
Vmp @ max amp temp (40C, 104F amb)	130.5	149.1	167.8	186.4	205.0	223.7	130.5	149.1	167.8												
Vmp @ max amp temp (45C, 113F amb)	126.6	144.7	162.8	180.9	199.0	217.1	126.6	144.7	162.8												
Vmp @ max amp temp (50C, 122F amb)	122.8	140.3	157.9	175.4	192.9	210.5	122.8	140.3	157.9												
OCV @ 25 deg C cells	205.8	235.2	264.6	294.0	323.4	352.8	205.8	235.2	264.6												
OCV @ coldest temp (-40C, -40F amb)	255.9	292.4	329.0	365.5	402.1	438.6	255.9	292.4	329.0												
OCV @ coldest temp (-30C, -22F amb)	248.2	283.6	319.1	354.5	389.2	424.5	248.2	283.6	319.1												
OCV @ coldest temp (-20C, -4F amb)	240.5	274.8	309.2	343.5	377.9	412.2	240.5	274.8	309.2												
OCV @ coldest temp (-10C, 14F amb)	232.8	266.0	299.3	332.5	365.8	399.0	232.8	266.0	299.3												
OCV @ coldest temp (0C, 32F amb)	225.1	257.2	289.4	321.5	353.7	385.8	225.1	257.2	289.4												
Power @ MPT (STC)	1260	1440	1620	1800	1980	2160	2250	2880	3240												
PTC AC system power rating	1040	1198	1337	1486	1634	1783	2091	2390	2688												
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500												

Module Manufacturer		Day4 Energy				Power @ MPT		170.0 W													
Module Model		48MC				PTC Power Rating		151.6 W				For Vmp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)		23.04 VDC				Temp Coeff of Vmp		0.11 V/degC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).									
Current @ MPT (STC)		7.38 ADC				Temp Coeff of Vocv		0.11 V/degC		(Vocv)		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit		7.9 ADC				NOCT (nom. cell temp)		46 deg C		114.8 deg F											
OCV @ 25 deg C cells		28.8 VDC																			
Modules total in array	7	8	9	10	11	12	14	16	18	20											
Modules per string	7	8	9	10	11	7	8	9	10	10											
Strings in Parallel	1	1	1	1	1	1	2	2	2	2											
Voltage @ MPT (STC)	161.3	184.3	207.4	230.4	253.4	276.5	161.3	184.3	207.4	230.4											
Vmp @ max amp temp (30C, 86F amb)	133.6	152.6	171.7	190.8	209.9	229.0	133.6	152.6	171.7	190.8											
Vmp @ max amp temp (35C, 95F amb)	129.7	148.2	166.8	185.3	203.8	222.4	129.7	148.2	166.8	185.3											
Vmp @ max amp temp (40C, 104F amb)	125.9	143.8	161.8	179.8	197.8	215.8	125.9	143.8	161.8	179.8											
Vmp @ max amp temp (45C, 113F amb)	122.0	139.4	156.9	174.3	191.7	209.2	122.0	139.4	156.9	174.3											
Vmp @ max amp temp (50C, 122F amb)	118.2	135.0	151.9	168.7	185.7	202.6	118.2	135.0	151.9	168.8											
OCV @ 25 deg C cells	201.6	230.4	259.2	288.0	316.8	345.6	201.6	230.4	259.2	288.0											
OCV @ coldest temp (-40C, -40F amb)	251.7	287.6	323.6	359.5	395.5	431.4	251.7	287.6	323.6	359.5											
OCV @ coldest temp (-30C, -22F amb)	244.0	278.8	313.7	348.5	383.4	418.2	244.0	278.8	313.7	348.5											
OCV @ coldest temp (-20C, -4F amb)	236.3	270.0	303.8	337.5	371.3	405.0	236.3	270.0	303.8	337.5											
OCV @ coldest temp (-10C, 14F amb)	228.6	262.2	295.9	329.6	363.3	397.0	228.6	262.2	295.9	329.6											
OCV @ coldest temp (0C, 32F amb)	220.9	252.4	284.0	315.5	347.1	378.6	220.9	252.4	284.0	315.5											
Power @ MPT (STC)	1190	1360	1530	1700	1870	2040	2380	2720	3060	3400											
PTC AC system power rating	980	1120	1260	1400	1540	1681	1971	2253	2534	2816											
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500											

Module Manufacturer		Eagle Solar Roofing Tile				Power @ MPT		34.0 W													
Module Model		OE-34				PTC Power Rating		0.0 W				For Vmp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)		4.8 VDC				Temp Coeff of Vmp		0.021 V/degC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).									
Current @ MPT (STC)		7.71 ADC				Temp Coeff of Vocv		0.021 V/degC		(Vocv)		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit		8.2 ADC				NOCT (nom. cell temp)		45 deg C		113 deg F											
OCV @ 25 deg C cells		6.07 VDC																			
Modules total in array	50	52	54	56	58	60	62	66	70	74	78	82	86								
Modules per string	50	52	54	56	58	60	62	66	70	74	78	82	86								
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	2								
Voltage @ MPT (STC)	240.0	249.6	259.2	268.8	278.4	288.0	148.8	158.4	168.0	177.6	187.2	196.8	206.4								
Vmp @ max amp temp (30C, 86F amb)	203.3	211.4	219.5	227.6	235.8	243.9	126.0	134.1	142.3	150.4	158.5	166.7	174.8								
Vmp @ max amp temp (35C, 95F amb)	198.0	205.9	213.8	221.8	229.7	237.6	122.8	130.7	138.6	146.5	154.4	162.4	170.3								
Vmp @ max amp temp (40C, 104F amb)	192.8	200.5	208.2	215.9	223.6	231.3	119.5	127.2	134.9	142.6	150.3	158.1	165.8								
Vmp @ max amp temp (45C, 113F amb)	187.5	195.0	202.5	210.0	217.5	225.0	116.3	123.8	131.3	138.8	146.3	153.8	161.3								
Vmp @ max amp temp (50C, 122F amb)	182.3	189.5	196.8	204.1	211.4	218.7	113.0	120.3	127.6	134.9	142.2	149.4	156.7								
OCV @ 25 deg C cells	303.5	315.6	327.8	339.9	352.1	364.2	188.2	200.3	212.5	224.6	236.7	248.9	261.0								
OCV @ coldest temp (-40C, -40F amb)	371.8	386.6	401.5	416.4	431.2	446.1	230.5	245.4	260.2	275.1	290.0	304.8	319.7								
OCV @ coldest temp (-30C, -22F amb)	361.3	375.7	390.2	404.6	419.1	433.5	224.0	238.4	252.9	267.3	281.8	296.2	310.7								
OCV @ coldest temp (-20C, -4F amb)	350.8	364.8	378.8	392.8	406.9	420.9	217.0	231.5	245.5	259.6	273.6	287.6	301.6								
OCV @ coldest temp (-10C, 14F amb)	340.3	353.9	367.5	381.1	394.7	408.3	211.0	224.6	238.2	251.8	265.4	279.0	292.6								
OCV @ coldest temp (0C, 32F amb)	329.8	342.9	356.1	369.3	382.5	395.7	204.4	217.6	230.8	244.0	257.2	270.4	283.6								
Power @ MPT (STC)	1700	1768	1836	1904	1972	2040	2108	2244	2380	2516	2652	2788	2924								
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0								
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	ET Solar										Power @ MPT		185.0 W											
Module Model	ET-M57185										PTC Power Rating		0.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)	36.3 VDC										PTC Power Rating		0.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),									
Current @ MPT (STC)	5.09 ADC										Temp Coeff of Vmpt		0.117 V/degC		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit	5.8 ADC										Temp Coeff of Vocv		0.117 V/degC											
OCV @ 25 deg C cells	44.6 VDC										NOCT (nom. cell temp)		44.4 deg C		111.92 deg F									
Modules total in array	5	6	7	8	10	12	14	16	15	18														
Modules per string	5	6	7	8	5	6	7	8	5	6														
Strings in Parallel	1	1	1	1	2	2	2	2	3	3														
Voltage @ MPT (STC)	181.5	217.8	254.1	290.4	181.5	217.8	254.1	290.4	181.5	217.8														
Vmpt @ max amb temp (30C, 86F amb)	161.4	193.7	225.9	258.2	161.4	193.7	225.9	258.2	161.4	193.7														
Vmpt @ max amb temp (35C, 95F amb)	158.5	190.1	221.8	253.5	158.5	190.1	221.8	253.5	158.5	190.1														
Vmpt @ max amb temp (40C, 104F amb)	155.5	186.6	217.7	248.8	155.5	186.6	217.7	248.8	155.5	186.6														
Vmpt @ max amb temp (45C, 113F amb)	152.6	183.1	213.6	244.2	152.6	183.1	213.6	244.2	152.6	183.1														
Vmpt @ max amb temp (50C, 122F amb)	149.7	179.6	209.5	239.5	149.7	179.6	209.5	239.5	149.7	179.6														
OCV @ 25 deg C cells	223.0	267.6	312.2	356.8	223.0	267.6	312.2	356.8	223.0	267.6														
OCV @ coldest temp (-40C, -40F amb)	261.0	313.2	365.4	417.6	261.0	313.2	365.4	417.6	261.0	313.2														
OCV @ coldest temp (-30C, -22F amb)	255.2	306.2	357.2	408.3	255.2	306.2	357.2	408.3	255.2	306.2														
OCV @ coldest temp (-20C, -4F amb)	249.3	299.2	349.1	398.9	249.3	299.2	349.1	398.9	249.3	299.2														
OCV @ coldest temp (-10C, 14F amb)	243.5	292.2	340.9	389.6	243.5	292.2	340.9	389.6	243.5	292.2														
OCV @ coldest temp (OC, 32F amb)	237.6	285.2	332.7	380.2	237.6	285.2	332.7	380.2	237.6	285.2														
Power @ MPT (STC)	925	1110	1295	1480	1850	2220	2590	2960	2775	3330														
PTC AC system power rating	763	916	1068	1221	1526	1832	2148	2455	2302	2762														
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500														

Module Manufacturer	ET Solar										Power @ MPT		180.0 W											
Module Model	ET-M572180										PTC Power Rating		0.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)	36.3 VDC										PTC Power Rating		0.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),									
Current @ MPT (STC)	4.95 ADC										Temp Coeff of Vmpt		0.177 V/degC		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit	5.61 ADC										Temp Coeff of Vocv		0.177 V/degC											
OCV @ 25 deg C cells	44.6 VDC										NOCT (nom. cell temp)		44.4 deg C		111.92 deg F									
Modules total in array	5	6	7	8	10	12	14	16	15	18														
Modules per string	5	6	7	8	5	6	7	8	5	6														
Strings in Parallel	1	1	1	1	2	2	2	2	3	3														
Voltage @ MPT (STC)	181.5	217.8	254.1	290.4	181.5	217.8	254.1	290.4	181.5	217.8														
Vmpt @ max amb temp (30C, 86F amb)	151.1	181.3	211.5	241.7	151.1	181.3	211.5	241.7	151.1	181.3														
Vmpt @ max amb temp (35C, 95F amb)	146.6	176.0	205.3	234.6	146.6	176.0	205.3	234.6	146.6	176.0														
Vmpt @ max amb temp (40C, 104F amb)	142.2	170.6	199.1	227.5	142.2	170.6	199.1	227.5	142.2	170.6														
Vmpt @ max amb temp (45C, 113F amb)	137.8	165.3	192.9	220.4	137.8	165.3	192.9	220.4	137.8	165.3														
Vmpt @ max amb temp (50C, 122F amb)	133.4	160.0	186.7	213.4	133.4	160.0	186.7	213.4	133.4	160.0														
OCV @ 25 deg C cells	223.0	267.6	312.2	356.8	223.0	267.6	312.2	356.8	223.0	267.6														
OCV @ coldest temp (-40C, -40F amb)	289.5	336.6	392.7	448.8	289.5	336.6	392.7	448.8	289.5	336.6														
OCV @ coldest temp (-30C, -22F amb)	271.7	326.0	380.3	434.7	271.7	326.0	380.3	434.7	271.7	326.0														
OCV @ coldest temp (-20C, -4F amb)	262.8	315.4	368.0	420.5	262.8	315.4	368.0	420.5	262.8	315.4														
OCV @ coldest temp (-10C, 14F amb)	254.0	304.8	355.6	406.4	254.0	304.8	355.6	406.4	254.0	304.8														
OCV @ coldest temp (OC, 32F amb)	245.1	294.2	343.2	392.2	245.1	294.2	343.2	392.2	245.1	294.2														
Power @ MPT (STC)	900	1080	1260	1440	1800	2160	2520	2880	2700	3240														
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0														
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500														

Module Manufacturer	ET Solar										Power @ MPT		175.0 W											
Module Model	ET-M572175										PTC Power Rating		0.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)	36.2 VDC										PTC Power Rating		0.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),									
Current @ MPT (STC)	4.83 ADC										Temp Coeff of Vmpt		0.176 V/degC		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit	5.5 ADC										Temp Coeff of Vocv		0.176 V/degC											
OCV @ 25 deg C cells	44.3 VDC										NOCT (nom. cell temp)		44.4 deg C		111.92 deg F									
Modules total in array	5	6	7	8	10	12	14	16	15	18														
Modules per string	5	6	7	8	5	6	7	8	5	6														
Strings in Parallel	1	1	1	1	2	2	2	2	3	3														
Voltage @ MPT (STC)	181.0	217.2	253.4	289.6	181.0	217.2	253.4	289.6	181.0	217.2														
Vmpt @ max amb temp (30C, 86F amb)	150.7	180.9	211.0	241.2	150.7	180.9	211.0	241.2	150.7	180.9														
Vmpt @ max amb temp (35C, 95F amb)	146.3	175.6	204.9	234.1	146.3	175.6	204.9	234.1	146.3	175.6														
Vmpt @ max amb temp (40C, 104F amb)	141.9	170.3	198.7	227.1	141.9	170.3	198.7	227.1	141.9	170.3														
Vmpt @ max amb temp (45C, 113F amb)	137.5	165.0	192.5	220.0	137.5	165.0	192.5	220.0	137.5	165.0														
Vmpt @ max amb temp (50C, 122F amb)	133.1	159.8	186.4	213.1	133.1	159.8	186.4	213.1	133.1	159.8														
OCV @ 25 deg C cells	221.5	265.8	310.1	354.4	221.5	265.8	310.1	354.4	221.5	265.8														
OCV @ coldest temp (-40C, -40F amb)	278.7	334.4	390.2	445.9	278.7	334.4	390.2	445.9	278.7	334.4														
OCV @ coldest temp (-30C, -22F amb)	269.9	323.9	377.9	431.8	269.9	323.9	377.9	431.8	269.9	323.9														
OCV @ coldest temp (-20C, -4F amb)	261.1	313.3	365.5	417.8	261.1	313.3	365.5	417.8	261.1	313.3														
OCV @ coldest temp (-10C, 14F amb)	253.2	302.0	352.7	403.7	253.2	302.0	352.7	403.7	253.2	302.0														
OCV @ coldest temp (OC, 32F amb)	243.5	292.2	340.9	389.6	243.5	292.2	340.9	389.6	243.5	292.2														
Power @ MPT (STC)	875	1050	1225	1400	1750	2100	2450	2800	2625	3150														
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0														
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500														

Module Manufacturer	ET Solar										Power @ MPT		170.0 W											
Module Model	ET-M572170										PTC Power Rating		0.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPT (STC)	36.1 VDC										PTC Power Rating		0.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),									
Current @ MPT (STC)	4.75 ADC										Temp Coeff of Vmpt		0.175 V/degC		purple is OK but indicates inverter will limit to 2500W AC continuous output									
Current, short circuit	5.3 ADC										Temp Coeff of Vocv		0.175 V/degC											
OCV @ 25 deg C cells	44.2 VDC										NOCT (nom. cell temp)		44.4 deg C		111.92 deg F									
Modules total in array	5	6	7	8	10	12	14	16	15	18														
Modules per string	5	6	7	8	5	6	7	8	5	6														
Strings in Parallel	1	1	1	1	2	2	2	2	3	3														
Voltage @ MPT (STC)	180.5	216.6	252.7	288.8	180.5	216.6	252.7	288.8	180.5	216.6														
Vmpt @ max amb temp (30C, 86F amb)	150.4	180.5	210.6	240.6	150.4	180.5	210.6	240.6	150.4	180.5														
Vmpt @ max amb temp (35C, 95F amb)	146.0	175.2	204.4	233.6	146.0	175.2	204.4	233.6	146.0	175.2														
Vmpt @ max amb temp (40C, 104F amb)	141.7	170.0	198.3	226.6	141.7	170.0	198.3	226.6	141.7	170.0														
Vmpt @ max amb temp (45C, 113F amb)	137.3	164.7	192.2	219.6	137.3	164.7	192.2	219.6	137.3	164.7														
Vmpt @ max amb temp (50C, 122F amb)	132.9	159.5	186.1	212.6	132.9	159.5	186.1	212.6	132.9	159.5														
OCV @ 25 deg C cells	221.0	265.2	309.4	353.6	221.0	265.2	309.4	353.6	221.0	265.2														
OCV @ coldest temp (-40C, -40F amb)	277.9	333.5	389.0	444.6	277.9	333.5	389.0	444.6	277.9	333.5														
OCV @ coldest temp (-30C, -22F amb)	269.1	323.0	376.8	430.6	269.1	323.0	376.8	430.6	269.1	323.0														
OCV @ coldest temp (-20C, -4F amb)	260.4	312.5	364.5	416.6	260.4	312.5	364.5	416.6	260.4	312.5														
OCV @ coldest temp (-10C, 14F amb)	251.6	302.0	352.3	402.6	251.6	302.0	352.3	402.6	251.6	302.0														
OCV @ coldest temp (OC, 32F amb)	242.9	291.5	340.0	388.6	242.9	291.5	340.0	388.6	242.9	291.5														
Power @ MPT (STC)	850	1020	1190	1360	1700	2040	2380	2720	2550	3060														
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0														
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI																

Module Manufacturer	ET Solar											
Module Model	ET-MS7160											
Voltage @ MPT (STC)	35.6 VDC											
Current @ MPT (STC)	4.49 ADC											
Current, short circuit	5.07 ADC											
OCV @ 25 deg C cells	43.9 VDC											
	Power @ MPT			160.0 W			PTC Power Rating			0.0 W		
	Temp Coeff of Vmp			0.174 V/degC			(Vmp)			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
	Temp Coeff of Voc			0.174 V/degC			(Voc)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),		
	NOCT (nom. cell temp)			44.4 deg C			111.92 deg F			purple is OK but indicates inverter will limit to 2500W AC continuous output		
Modules total in array	5	6	7	8	10	12	14	16	15	18	21	24
Modules per string	5	6	7	8	5	6	7	8	5	6	7	8
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3	3
Voltage @ MPT (STC)	176.0	213.6	249.2	284.8	176.0	213.6	249.2	284.8	176.0	213.6	249.2	284.8
Vmp @ max amb temp (30C, 86F amb)	145.1	177.7	207.3	236.9	145.1	177.7	207.3	236.9	145.1	177.7	207.3	236.9
Vmp @ max amb temp (35C, 95F amb)	143.7	172.5	201.2	230.0	143.7	172.5	201.2	230.0	143.7	172.5	201.2	230.0
Vmp @ max amb temp (40C, 104F amb)	139.4	167.2	195.1	223.0	139.4	167.2	195.1	223.0	139.4	167.2	195.1	223.0
Vmp @ max amb temp (45C, 113F amb)	135.0	162.0	189.0	216.0	135.0	162.0	189.0	216.0	135.0	162.0	189.0	216.0
Vmp @ max amb temp (50C, 122F amb)	130.7	156.8	182.9	209.1	130.7	156.8	182.9	209.1	130.7	156.8	182.9	209.1
OCV @ 25 deg C cells	219.5	263.4	307.3	351.2	219.5	263.4	307.3	351.2	219.5	263.4	307.3	351.2
OCV @ coldest temp (-40C, -40F amb)	276.1	331.3	386.5	441.7	276.1	331.3	386.5	441.7	276.1	331.3	386.5	441.7
OCV @ coldest temp (-30C, -22F amb)	267.4	320.8	374.3	427.8	267.4	320.8	374.3	427.8	267.4	320.8	374.3	427.8
OCV @ coldest temp (-20C, -4F amb)	258.7	310.4	362.1	413.8	258.7	310.4	362.1	413.8	258.7	310.4	362.1	413.8
OCV @ coldest temp (-10C, 14F amb)	250.0	299.9	349.9	399.9	250.0	299.9	349.9	399.9	250.0	299.9	349.9	399.9
OCV @ coldest temp (0C, 32F amb)	241.3	289.5	337.8	386.0	241.3	289.5	337.8	386.0	241.3	289.5	337.8	386.0
Power @ MPT (STC)	800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360	3840
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar											
Module Model	ET-MS7155											
Voltage @ MPT (STC)	35.2 VDC											
Current @ MPT (STC)	4.4 ADC											
Current, short circuit	4.98 ADC											
OCV @ 25 deg C cells	43.3 VDC											
	Power @ MPT			155.0 W			PTC Power Rating			0.0 W		
	Temp Coeff of Vmp			0.172 V/degC			(Vmp)			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
	Temp Coeff of Voc			0.172 V/degC			(Voc)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),		
	NOCT (nom. cell temp)			44.4 deg C			111.92 deg F			purple is OK but indicates inverter will limit to 2500W AC continuous output		
Modules total in array	5	6	7	8	10	12	14	16	15	18	21	24
Modules per string	5	6	7	8	5	6	7	8	5	6	7	8
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3	3
Voltage @ MPT (STC)	176.0	211.2	246.4	281.6	176.0	211.2	246.4	281.6	176.0	211.2	246.4	281.6
Vmp @ max amb temp (30C, 86F amb)	146.4	175.7	205.0	234.3	146.4	175.7	205.0	234.3	146.4	175.7	205.0	234.3
Vmp @ max amb temp (35C, 95F amb)	142.1	170.5	199.0	227.4	142.1	170.5	199.0	227.4	142.1	170.5	199.0	227.4
Vmp @ max amb temp (40C, 104F amb)	137.8	165.4	192.9	220.5	137.8	165.4	192.9	220.5	137.8	165.4	192.9	220.5
Vmp @ max amb temp (45C, 113F amb)	133.5	160.2	186.9	213.6	133.5	160.2	186.9	213.6	133.5	160.2	186.9	213.6
Vmp @ max amb temp (50C, 122F amb)	129.2	155.1	180.9	206.7	129.2	155.1	180.9	206.7	129.2	155.1	180.9	206.7
OCV @ 25 deg C cells	216.5	259.8	303.1	346.4	216.5	259.8	303.1	346.4	216.5	259.8	303.1	346.4
OCV @ coldest temp (-40C, -40F amb)	272.4	326.9	381.4	435.8	272.4	326.9	381.4	435.8	272.4	326.9	381.4	435.8
OCV @ coldest temp (-30C, -22F amb)	263.8	316.6	369.3	422.1	263.8	316.6	369.3	422.1	263.8	316.6	369.3	422.1
OCV @ coldest temp (-20C, -4F amb)	255.2	306.2	357.3	408.3	255.2	306.2	357.3	408.3	255.2	306.2	357.3	408.3
OCV @ coldest temp (-10C, 14F amb)	246.6	295.9	345.2	394.6	246.6	295.9	345.2	394.6	246.6	295.9	345.2	394.6
OCV @ coldest temp (0C, 32F amb)	238.0	285.6	333.2	380.8	238.0	285.6	333.2	380.8	238.0	285.6	333.2	380.8
Power @ MPT (STC)	775	930	1085	1240	1550	1860	2170	2480	2325	2790	3255	3720
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar															
Module Model	ET-MS3685															
Voltage @ MPT (STC)	18.05 VDC															
Current @ MPT (STC)	4.71 ADC															
Current, short circuit	5.29 ADC															
OCV @ 25 deg C cells	21.94 VDC															
	Power @ MPT			85.0 W			PTC Power Rating			0.0 W						
	Temp Coeff of Vmp			0.087 V/degC			(Vmp)			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK						
	Temp Coeff of Voc			0.087 V/degC			(Voc)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),						
	NOCT (nom. cell temp)			44.4 deg C			111.92 deg F			purple is OK but indicates inverter will limit to 2500W AC continuous output						
Modules total in array	18	20	22	24	26	28	30	32	27	30	33	36	39	42	45	48
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16
Strings in Parallel	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
Voltage @ MPT (STC)	162.5	180.5	198.6	216.6	234.7	252.7	270.8	288.8	162.5	180.5	198.6	216.6	234.7	252.7	270.8	288.8
Vmp @ max amb temp (30C, 86F amb)	135.5	150.6	165.6	180.7	195.7	210.8	225.9	240.9	135.5	150.6	165.6	180.7	195.7	210.8	225.9	240.9
Vmp @ max amb temp (35C, 95F amb)	131.6	146.2	160.8	175.5	190.1	204.7	219.3	234.0	131.6	146.2	160.8	175.5	190.1	204.7	219.3	234.0
Vmp @ max amb temp (40C, 104F amb)	127.7	141.9	156.1	170.2	184.4	198.6	212.8	227.0	127.7	141.9	156.1	170.2	184.4	198.6	212.8	227.0
Vmp @ max amb temp (45C, 113F amb)	123.8	137.5	151.3	165.0	178.8	192.5	206.3	220.0	123.8	137.5	151.3	165.0	178.8	192.5	206.3	220.0
Vmp @ max amb temp (50C, 122F amb)	119.9	133.2	146.5	159.8	173.1	186.4	199.8	213.1	119.9	133.2	146.5	159.8	173.1	186.4	199.8	213.1
OCV @ 25 deg C cells	197.5	219.4	241.3	263.3	285.2	307.2	329.1	351.0	197.5	219.4	241.3	263.3	285.2	307.2	329.1	351.0
OCV @ coldest temp (-40C, -40F amb)	248.4	276.0	303.5	331.1	358.7	386.3	413.9	441.5	248.4	276.0	303.5	331.1	358.7	386.3	413.9	441.5
OCV @ coldest temp (-30C, -22F amb)	240.5	267.3	294.0	320.7	347.4	374.2	400.9	427.6	240.5	267.3	294.0	320.7	347.4	374.2	400.9	427.6
OCV @ coldest temp (-20C, -4F amb)	232.7	258.8	284.4	310.3	336.1	362.0	387.8	413.7	232.7	258.8	284.4	310.3	336.1	362.0	387.8	413.7
OCV @ coldest temp (-10C, 14F amb)	224.9	249.9	274.9	299.9	324.9	349.8	374.8	399.8	224.9	249.9	274.9	299.9	324.9	349.8	374.8	399.8
OCV @ coldest temp (0C, 32F amb)	217.0	241.2	265.3	289.4	313.5	337.6	361.7	385.8	217.0	241.2	265.3	289.4	313.5	337.6	361.7	385.8
Power @ MPT (STC)	1530	1700	1870	2040	2210	2380	2550	2720	2295	2550	2805	3060	3315	3570	3825	4080
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar															
Module Model	ET-MS3680															
Voltage @ MPT (STC)	17.64 VDC															
Current @ MPT (STC)	4.54 ADC															
Current, short circuit	4.98 ADC															
OCV @ 25 deg C cells	21.88 VDC															
	Power @ MPT			80.0 W			PTC Power Rating			0.0 W						
	Temp Coeff of Vmp			0.087 V/degC			(Vmp)			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK						
	Temp Coeff of Voc			0.087 V/degC			(Voc)			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),						
	NOCT (nom. cell temp)			44.4 deg C			111.92 deg F			purple is OK but indicates inverter will limit to 2500W AC continuous output						
Modules total in array	18	20	22	24	26	28	30	32	27	30	33	36	39	42	45	48
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16
Strings in Parallel	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
Voltage @ MPT (STC)	158.8	176.4	194.0	211.7	229.3	247.0	264.6	282.2	158.8	176.4	194.0	211.7	229.3	247.0	264.6	282.2
Vmp @ max amb temp (30C, 86F amb)	131.8	146.5	161.1	175.8	190.4	205.1	219.7	234.4	131.8	146.5	161.1	175.8	190.4	205.1	219.7	234.4
Vmp @ max amb temp (35C, 95F amb)	127.9	142.1	156.3	170.5	184.8	199.0	213.2	227.4	127.9	142.1	156.3	170.5	184.8	199.0	213.2	227.4
Vmp @ max amb temp (40C, 104F amb)	124.0	137.8	151.5	165.3	179.1	192.9	206.7	220.4	124.0	137.8	151.5	165.3	179.1	192.9	206.7	220.4
Vmp @ max amb temp (45C, 113F amb)	120.1	133.4	146.8	160.1	173.4	186.8	200.1	213.5	120.1	133.4	146.8	160.1	173.4	186.8	200.1	213.5
Vmp @ max amb temp (50C, 122F amb)	116.2	129.1	142.0	154.9	167.8	180.7	193.6	206.5	116.2	129.1	142.0	154.9	167.8	180.7	193.6	206.5
OCV @ 25 deg C cells	196.9	218.8	240.7	262.6	284.4	306.3	328.2	350.1	196.9	218.8	240.7	262.6	284.4	306.3	328.2	350.1
OCV @ coldest temp (-40C, -40F amb)	247.8	275.4	302.9	330.4	358.0	385.5	413.0	440.6	247.8	275.4	302.9	330.4	358.0	385.5	413.0	440.6
OCV @ coldest temp (-30C, -22F amb)	240.0	266.7	293.3	320.0	346.6	373.3	400.0	426.6	240.0	266.7	293.3	320.0	346.6	373.3	400.0	426.6
OCV @ coldest temp (-20C, -4F amb)	232.2	258.0	283.7	309.5	335.3	361.1	386.9	41								

Module Manufacturer		ET Solar		Power @ MPT		70.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		ET-M53670		PTC Power Rating		0.0 W														
Voltage @ MPT (STC)		16.9 VDC		Temp Coeff of Vmp _{pt}		0.085 V/degC		(Vmp _{pt})												
Current @ MPT (STC)		4.14 ADC		Temp Coeff of Voc _{pt}		0.085 V/degC		(Voc _{pt})												
Current, short circuit		4.45 ADC		NOCT (nom. cell temp)		44.4 deg C		111.92 deg F												
OCV @ 25 deg C cells		21.45 VDC																		
Modules total in array	18	20	22	24	26	28	30	32	27	30	33	36	39	42	45	48				
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16				
Strings in Parallel	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3				
Voltage @ MPT (STC)	152.1	169.0	185.9	202.8	219.7	236.6	253.5	270.4	152.1	169.0	185.9	202.8	219.7	236.6	253.5	270.4				
Vmpt @ max amb temp (30C, 86F amb)	125.8	139.8	153.7	167.7	181.7	195.7	209.6	223.6	125.8	139.8	153.7	167.7	181.7	195.7	209.6	223.6				
Vmpt @ max amb temp (35C, 95F amb)	120.0	135.5	149.1	162.6	176.2	189.7	203.3	216.8	122.0	135.5	149.1	162.6	176.2	189.7	203.3	216.8				
Vmpt @ max amb temp (40C, 104F amb)	118.1	131.3	144.4	157.5	170.6	183.8	196.9	210.0	118.1	131.3	144.4	157.5	170.6	183.8	196.9	210.0				
Vmpt @ max amb temp (45C, 113F amb)	114.3	127.0	139.7	152.4	165.1	177.8	190.5	203.2	114.3	127.0	139.7	152.4	165.1	177.8	190.5	203.2				
Vmpt @ max amb temp (50C, 122F amb)	110.5	122.8	135.0	147.3	159.6	171.9	184.1	196.4	110.5	122.8	135.0	147.3	159.6	171.9	184.1	196.4				
OCV @ 25 deg C cells	193.1	214.5	236.0	257.4	278.9	300.3	321.8	343.2	193.1	214.5	236.0	257.4	278.9	300.3	321.8	343.2				
OCV @ coldest temp (-40C, -40F amb)	242.8	269.8	296.7	323.7	350.7	377.7	404.6	431.6	242.8	269.8	296.7	323.7	350.7	377.7	404.6	431.6				
OCV @ coldest temp (-30C, -22F amb)	235.1	261.4	287.4	313.5	339.6	365.8	391.9	418.0	235.1	261.4	287.4	313.5	339.6	365.8	391.9	418.0				
OCV @ coldest temp (-20C, -4F amb)	227.5	252.8	278.0	303.3	328.6	353.9	379.1	404.4	227.5	252.8	278.0	303.3	328.6	353.9	379.1	404.4				
OCV @ coldest temp (-10C, 14F amb)	219.8	244.3	268.7	293.1	317.5	342.0	366.4	390.8	219.8	244.3	268.7	293.1	317.5	342.0	366.4	390.8				
OCV @ coldest temp (0C, 32F amb)	212.2	235.8	259.3	282.9	306.5	330.1	353.6	377.2	212.2	235.8	259.3	282.9	306.5	330.1	353.6	377.2				
Power @ MPT (STC)	1260	1400	1540	1680	1820	1960	2100	2240	1890	2100	2310	2520	2730	2940	3150	3360				
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

Module Manufacturer		ET Solar		Power @ MPT		280.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		ET-P672280		PTC Power Rating		250.5 W														
Voltage @ MPT (STC)		36.72 VDC		Temp Coeff of Vmp _{pt}		0.151 V/degC		(Vmp _{pt})												
Current @ MPT (STC)		7.83 ADC		Temp Coeff of Voc _{pt}		0.151 V/degC		(Voc _{pt})												
Current, short circuit		7.98 ADC		NOCT (nom. cell temp)		45.3 deg C		113.54 deg F												
OCV @ 25 deg C cells		43.78 VDC																		
Modules total in array	5	6	7	8	10	12	14	7	7	7	7	7	7	7	7	7				
Modules per string	5	6	7	8	10	12	14	7	7	7	7	7	7	7	7	7				
Strings in Parallel	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1				
Voltage @ MPT (STC)	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8				
Vmpt @ max amb temp (30C, 86F amb)	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1				
Vmpt @ max amb temp (35C, 95F amb)	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1				
Vmpt @ max amb temp (40C, 104F amb)	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0				
Vmpt @ max amb temp (45C, 113F amb)	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0				
Vmpt @ max amb temp (50C, 122F amb)	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0				
OCV @ 25 deg C cells	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2				
OCV @ coldest temp (-40C, -40F amb)	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8				
OCV @ coldest temp (-30C, -22F amb)	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7				
OCV @ coldest temp (-20C, -4F amb)	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6				
OCV @ coldest temp (-10C, 14F amb)	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5				
OCV @ coldest temp (0C, 32F amb)	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4				
Power @ MPT (STC)	1400	1680	1960	2240	2800	3360	3920	4480	3360	4032	4704	5376	6048	6720	7392	8064				
PTC AC system power rating	1150	1390	1622	1854	2317	2781	3245	3709	3245	3954	4663	5372	6081	6790	7499	8208				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

Module Manufacturer		ET Solar		Power @ MPT		275.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output												
Module Model		ET-P672275		PTC Power Rating		245.5 W														
Voltage @ MPT (STC)		36.72 VDC		Temp Coeff of Vmp _{pt}		0.151 V/degC		(Vmp _{pt})												
Current @ MPT (STC)		7.49 ADC		Temp Coeff of Voc _{pt}		0.151 V/degC		(Voc _{pt})												
Current, short circuit		7.96 ADC		NOCT (nom. cell temp)		45.3 deg C		113.54 deg F												
OCV @ 25 deg C cells		43.78 VDC																		
Modules total in array	5	6	7	8	10	12	14	7	7	7	7	7	7	7	7	7				
Modules per string	5	6	7	8	10	12	14	7	7	7	7	7	7	7	7	7				
Strings in Parallel	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1				
Voltage @ MPT (STC)	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8	183.6	220.3	257.0	293.8				
Vmpt @ max amb temp (30C, 86F amb)	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1	156.9	188.3	219.7	251.1				
Vmpt @ max amb temp (35C, 95F amb)	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1	153.2	183.8	214.4	245.1				
Vmpt @ max amb temp (40C, 104F amb)	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0	149.4	179.3	209.2	239.0				
Vmpt @ max amb temp (45C, 113F amb)	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0	145.6	174.7	203.9	233.0				
Vmpt @ max amb temp (50C, 122F amb)	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0	141.8	170.2	198.6	227.0				
OCV @ 25 deg C cells	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2	218.9	262.7	306.5	350.2				
OCV @ coldest temp (-40C, -40F amb)	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8	268.0	321.6	375.2	428.8				
OCV @ coldest temp (-30C, -22F amb)	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7	260.4	312.5	364.6	416.7				
OCV @ coldest temp (-20C, -4F amb)	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6	252.9	303.5	354.0	404.6				
OCV @ coldest temp (-10C, 14F amb)	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5	245.3	294.4	343.5	392.5				
OCV @ coldest temp (0C, 32F amb)	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4	237.8	285.3	332.9	380.4				
Power @ MPT (STC)	1375	1650	1925	2200	2750	3300	3850	4400	3300	4032	4764	5496	6228	6960	7692	8424				
PTC AC system power rating	1137	1365	1592	1820	2275	2729	3202	3675	3202	3954	4706	5458	6210	6962	7714	8466				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

Module Manufacturer		ET Solar		Power @ MPT		270.0 W		For Vmp _{pt} @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model		ET-P672270		PTC Power Rating		241.4 W												
Voltage @ MPT (STC)		36.4 VDC		Temp Coeff of Vmp _{pt}		0.151 V/degC		(Vmp _{pt})										

Module Manufacturer	ET Solar						Power @ MPT				
Module Model	ET-P672260						PTC Power Rating				
Voltage @ MPT (STC)	36 VDC						260.0 W				
Current @ MPT (STC)	7.23 ADC						232.2 W				
Current, short circuit	7.79 ADC						0.15 V/dgC (Vmp)				
OCV @ 25 deg C cells	43.49 VDC						0.15 V/dgC (Voc)				
							NOCT (nom. cell temp)			45.3 deg C	113.54 deg F
Modules total in array	5	6	7	8	10	12	14				
Modules per string	5	6	7	8	5	6	7				
Strings in Parallel	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	180.0	216.0	252.0	288.0	180.0	216.0	252.0				
Vmpt @ max amb temp (30C, 86F amb)	153.5	184.2	214.8	245.8	153.5	184.2	214.9				
Vmpt @ max amb temp (35C, 95F amb)	149.8	179.7	209.7	239.6	149.8	179.7	209.7				
Vmpt @ max amb temp (40C, 104F amb)	146.0	175.2	204.4	233.6	146.0	175.2	204.4				
Vmpt @ max amb temp (45C, 113F amb)	142.3	170.7	199.2	227.6	142.3	170.7	199.2				
Vmpt @ max amb temp (50C, 122F amb)	138.5	166.2	193.9	221.6	138.5	166.2	193.9				
OCV @ 25 deg C cells	217.5	260.9	304.4	347.9	217.5	260.9	304.4				
OCV @ coldest temp (-40C, -40F amb)	266.2	319.4	372.7	425.9	266.2	319.4	372.7				
OCV @ coldest temp (-30C, -22F amb)	258.7	310.4	362.2	413.9	258.7	310.4	362.2				
OCV @ coldest temp (-20C, -4F amb)	251.2	301.4	351.7	401.9	251.2	301.4	351.7				
OCV @ coldest temp (-10C, 14F amb)	243.7	292.4	341.2	389.9	243.7	292.4	341.2				
OCV @ coldest temp (0C, 32F amb)	236.2	283.4	330.7	377.9	236.2	283.4	330.7				
Power @ MPT (STC)	1300	1560	1820	2080	2600	3120	3640				
PTC AC system power rating	1074	1289	1503	1718	2148	2577	3023				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar						Power @ MPT				
Module Model	ET-P672255						PTC Power Rating				
Voltage @ MPT (STC)	35.2 VDC						255.0 W				
Current @ MPT (STC)	7.23 ADC						227.6 W				
Current, short circuit	7.85 ADC						0.152 V/dgC (Vmp)				
OCV @ 25 deg C cells	43.88 VDC						0.152 V/dgC (Voc)				
							NOCT (nom. cell temp)			45.3 deg C	113.54 deg F
Modules total in array	5	6	7	8	10	12	14				
Modules per string	5	6	7	8	5	6	7				
Strings in Parallel	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	176.0	211.2	246.4	281.6	176.0	211.2	246.4				
Vmpt @ max amb temp (30C, 86F amb)	149.2	179.0	208.8	238.7	149.2	179.0	208.8				
Vmpt @ max amb temp (35C, 95F amb)	145.4	174.4	203.5	232.6	145.4	174.4	203.5				
Vmpt @ max amb temp (40C, 104F amb)	141.6	169.9	198.2	226.5	141.6	169.9	198.2				
Vmpt @ max amb temp (45C, 113F amb)	137.8	165.3	192.9	220.4	137.8	165.3	192.9				
Vmpt @ max amb temp (50C, 122F amb)	134.0	160.8	187.6	214.4	134.0	160.8	187.6				
OCV @ 25 deg C cells	219.4	263.3	307.2	351.0	219.4	263.3	307.2				
OCV @ coldest temp (-40C, -40F amb)	268.8	322.6	376.3	430.1	268.8	322.6	376.3				
OCV @ coldest temp (-30C, -22F amb)	261.2	313.4	365.7	417.9	261.2	313.4	365.7				
OCV @ coldest temp (-20C, -4F amb)	253.6	304.3	355.0	405.8	253.6	304.3	355.0				
OCV @ coldest temp (-10C, 14F amb)	246.0	295.2	344.4	393.6	246.0	295.2	344.4				
OCV @ coldest temp (0C, 32F amb)	238.4	286.1	333.8	381.4	238.4	286.1	333.8				
Power @ MPT (STC)	1275	1530	1785	2040	2550	3060	3570				
PTC AC system power rating	1053	1263	1474	1684	2105	2526	2953				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar						Power @ MPT				
Module Model	ET-P672250						PTC Power Rating				
Voltage @ MPT (STC)	35.2 VDC						250.0 W				
Current @ MPT (STC)	7.12 ADC						223.0 W				
Current, short circuit	7.81 ADC						0.152 V/dgC (Vmp)				
OCV @ 25 deg C cells	43.88 VDC						0.152 V/dgC (Voc)				
							NOCT (nom. cell temp)			45.3 deg C	113.54 deg F
Modules total in array	5	6	7	8	10	12	14				
Modules per string	5	6	7	8	5	6	7				
Strings in Parallel	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	176.0	211.2	246.4	281.6	176.0	211.2	246.4				
Vmpt @ max amb temp (30C, 86F amb)	149.2	179.0	208.8	238.7	149.2	179.0	208.8				
Vmpt @ max amb temp (35C, 95F amb)	145.4	174.4	203.5	232.6	145.4	174.4	203.5				
Vmpt @ max amb temp (40C, 104F amb)	141.6	169.9	198.2	226.5	141.6	169.9	198.2				
Vmpt @ max amb temp (45C, 113F amb)	137.8	165.3	192.9	220.4	137.8	165.3	192.9				
Vmpt @ max amb temp (50C, 122F amb)	134.0	160.8	187.6	214.4	134.0	160.8	187.6				
OCV @ 25 deg C cells	219.4	263.3	307.2	351.0	219.4	263.3	307.2				
OCV @ coldest temp (-40C, -40F amb)	268.8	322.6	376.3	430.1	268.8	322.6	376.3				
OCV @ coldest temp (-30C, -22F amb)	261.2	313.4	365.7	417.9	261.2	313.4	365.7				
OCV @ coldest temp (-20C, -4F amb)	253.6	304.3	355.0	405.8	253.6	304.3	355.0				
OCV @ coldest temp (-10C, 14F amb)	246.0	295.2	344.4	393.6	246.0	295.2	344.4				
OCV @ coldest temp (0C, 32F amb)	238.4	286.1	333.8	381.4	238.4	286.1	333.8				
Power @ MPT (STC)	1250	1500	1750	2000	2500	3000	3500				
PTC AC system power rating	1031	1238	1444	1650	2063	2475	2903				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar						Power @ MPT				
Module Model	ET-P672245						PTC Power Rating				
Voltage @ MPT (STC)	34.95 VDC						245.0 W				
Current @ MPT (STC)	7.01 ADC						218.5 W				
Current, short circuit	7.7 ADC						0.152 V/dgC (Vmp)				
OCV @ 25 deg C cells	43.85 VDC						0.152 V/dgC (Voc)				
							NOCT (nom. cell temp)			45.3 deg C	113.54 deg F
Modules total in array	5	6	7	8	10	12	14				
Modules per string	5	6	7	8	5	6	7				
Strings in Parallel	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	174.8	209.7	244.7	279.6	174.8	209.7	244.7				
Vmpt @ max amb temp (30C, 86F amb)	147.9	177.5	207.1	236.7	147.9	177.5	207.1				
Vmpt @ max amb temp (35C, 95F amb)	144.1	172.9	201.8	230.6	144.1	172.9	201.8				
Vmpt @ max amb temp (40C, 104F amb)	140.3	168.4	196.5	224.5	140.3	168.4	196.5				
Vmpt @ max amb temp (45C, 113F amb)	136.5	163.8	191.1	218.4	136.5	163.8	191.1				
Vmpt @ max amb temp (50C, 122F amb)	132.7	159.3	185.8	212.4	132.7	159.3	185.8				
OCV @ 25 deg C cells	219.3	263.1	307.0	350.8	219.3	263.1	307.0				
OCV @ coldest temp (-40C, -40F amb)	268.7	322.4	376.1	429.8	268.7	322.4	376.1				
OCV @ coldest temp (-30C, -22F amb)	261.1	313.3	365.5	417.7	261.1	313.3	365.5				
OCV @ coldest temp (-20C, -4F amb)	253.5	304.1	354.8	405.5	253.5	304.1	354.8				
OCV @ coldest temp (-10C, 14F amb)	245.9	295.0	344.2	393.4	245.9	295.0	344.2				
OCV @ coldest temp (0C, 32F amb)	238.3	285.9	333.6	381.2	238.3	285.9	333.6				
Power @ MPT (STC)	1225	1470	1715	1960	2450	2940	3430				
PTC AC system power rating	1011	1213	1415	1617	2021	2425	2845				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar						Power @ MPT				
Module Model	ET-P672240						PTC Power Rating				
Voltage @ MPT (STC)	34.95 VDC						240.0 W				
Current @ MPT (STC)	6.88 ADC						218.5 W				
Current, short circuit	7.63 ADC						0.152 V/dgC (Vmp)				
OCV @ 25 deg C cells	43.85 VDC						0.152 V/dgC (Voc)				
							NOCT (nom. cell temp)			45.3 deg C	113.54 deg F
Modules total in array	5	6	7	8	10	12	14				
Modules per string	5	6	7	8	5	6	7				
Strings in Parallel	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	174.8	209.7	244.7	279.6	174.8	209.7	244.7				
Vmpt @ max amb temp (30C, 86F amb)	147.9	177.5	207.1	236.7	147.9	177.5	207.1				
Vmpt @ max amb temp (35C, 95F amb)	144.1	172.9	201.8	230.6	144.1	172.9	201.8				
Vmpt @ max amb temp (40C, 104F amb)	140.3	168.4	196.5	224.5	140.3	168.4	196.5				
Vmpt @ max amb temp (45C, 113F amb)	136.5	163.8	191.1	218.4	136.5	163.8	191.1				
Vmpt @ max amb temp (50C, 122F amb)	132.7	159.3	185.8	212.4	132.7	159.3	185.8				
OCV @ 25 deg C cells	219.3	263.1	307.0	350.8	219.3	263.1	307.0				
OCV @ coldest temp (-40C, -40F amb)	268.7	322.4	376.1	429.8	268.7	322.4	376.1				
OCV @ coldest temp (-30C, -22F amb)	261.1	313.3	365.5	417.7	261.1	313.3	365.5				
OCV @ coldest temp (-20C, -4F amb)	253.5	304.1	354.8	405.5	253.5	304.1	354.8				
OCV @ coldest temp (-10C, 14F amb)	245.9	295.0	344.2	393.4	245.9	295.0	344.2				
OCV @ coldest temp (0C, 32F amb)	238.3	285.9	333.6	381.2	238.3	285.9	333.6				
Power @ MPT (STC)	1200	1440	1680	1920	2400	2880	3360				
PTC AC system power rating	1011	1213	1415	1617	2021	2425	2845				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar											
Module Model	ET-P600240											
Voltage @ MPP (STC)	29.4 VDC											
Current @ MPP (STC)	8.16 ADC											
Current, short circuit	8.55 ADC											
OCV @ 25 deg C cells	36.5 VDC											
	Power @ MPP (STC) 240.0 W											
	PTC Power Rating 0.0 W											
	Temp Coeff of Vmpp 0.126 V/degC (Vmpp)											
	Temp Coeff of Vocv 0.126 V/degC (Vocv)											
	NOCT (nom. cell temp) 45.3 deg C 113.54 deg F											
	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output											
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20
Modules per string	5	6	7	8	9	10	5	6	7	8	9	10
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	147.0	176.4	205.8	235.2	264.6	294.0	147.0	176.4	205.8	235.2	264.6	294.0
Vmpt @ max amb temp (30C, 86F amb)	124.3	149.7	174.7	199.6	224.8	249.5	124.3	149.7	174.7	199.6	224.8	249.5
Vmpt @ max amb temp (35C, 95F amb)	121.6	145.9	170.3	194.6	218.9	243.2	121.6	145.9	170.3	194.6	218.9	243.2
Vmpt @ max amb temp (40C, 104F amb)	118.5	142.2	165.8	189.5	213.2	236.9	118.5	142.2	165.8	189.5	213.2	236.9
Vmpt @ max amb temp (45C, 113F amb)	115.3	138.4	161.4	184.5	207.6	230.6	115.3	138.4	161.4	184.5	207.6	230.6
Vmpt @ max amb temp (50C, 122F amb)	112.2	134.6	157.0	179.5	201.9	224.3	112.2	134.6	157.0	179.5	201.9	224.3
OCV @ 25 deg C cells	182.5	219.0	255.5	292.0	328.5	365.0	182.5	219.0	255.5	292.0	328.5	365.0
OCV @ coldest temp (-40C, -40F amb)	223.5	268.1	312.8	357.5	402.2	446.9	223.5	268.1	312.8	357.5	402.2	446.9
OCV @ coldest temp (-30C, -22F amb)	217.2	260.6	304.0	347.4	390.9	434.3	217.2	260.6	304.0	347.4	390.9	434.3
OCV @ coldest temp (-20C, -4F amb)	210.9	253.0	295.2	337.4	379.5	421.7	210.9	253.0	295.2	337.4	379.5	421.7
OCV @ coldest temp (-10C, 14F amb)	204.6	245.5	286.4	327.3	368.2	409.1	204.6	245.5	286.4	327.3	368.2	409.1
OCV @ coldest temp (0C, 32F amb)	198.3	237.9	277.6	317.2	356.9	396.5	198.3	237.9	277.6	317.2	356.9	396.5
Power @ MPT (STC)	1200	1440	1680	1920	2160	2400	2400	2880	3360	3840	4320	4800
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar											
Module Model	ET-P600235											
Voltage @ MPP (STC)	29.4 VDC											
Current @ MPP (STC)	7.99 ADC											
Current, short circuit	8.3 ADC											
OCV @ 25 deg C cells	36.5 VDC											
	Power @ MPP (STC) 235.0 W											
	PTC Power Rating 0.0 W											
	Temp Coeff of Vmpp 0.126 V/degC (Vmpp)											
	Temp Coeff of Vocv 0.126 V/degC (Vocv)											
	NOCT (nom. cell temp) 45.3 deg C 113.54 deg F											
	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output											
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20
Modules per string	5	6	7	8	9	10	5	6	7	8	9	10
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	147.0	176.4	205.8	235.2	264.6	294.0	147.0	176.4	205.8	235.2	264.6	294.0
Vmpt @ max amb temp (30C, 86F amb)	124.8	149.7	174.7	199.6	224.6	249.5	124.8	149.7	174.7	199.6	224.6	249.5
Vmpt @ max amb temp (35C, 95F amb)	121.6	145.9	170.3	194.6	218.9	243.2	121.6	145.9	170.3	194.6	218.9	243.2
Vmpt @ max amb temp (40C, 104F amb)	118.5	142.2	165.8	189.5	213.2	236.9	118.5	142.2	165.8	189.5	213.2	236.9
Vmpt @ max amb temp (45C, 113F amb)	115.3	138.4	161.4	184.5	207.6	230.6	115.3	138.4	161.4	184.5	207.6	230.6
Vmpt @ max amb temp (50C, 122F amb)	112.2	134.6	157.0	179.5	201.9	224.3	112.2	134.6	157.0	179.5	201.9	224.3
OCV @ 25 deg C cells	182.5	219.0	255.5	292.0	328.5	365.0	182.5	219.0	255.5	292.0	328.5	365.0
OCV @ coldest temp (-40C, -40F amb)	223.5	268.1	312.8	357.5	402.2	446.9	223.5	268.1	312.8	357.5	402.2	446.9
OCV @ coldest temp (-30C, -22F amb)	217.2	260.6	304.0	347.4	390.9	434.3	217.2	260.6	304.0	347.4	390.9	434.3
OCV @ coldest temp (-20C, -4F amb)	210.9	253.0	295.2	337.4	379.5	421.7	210.9	253.0	295.2	337.4	379.5	421.7
OCV @ coldest temp (-10C, 14F amb)	204.6	245.5	286.4	327.3	368.2	409.1	204.6	245.5	286.4	327.3	368.2	409.1
OCV @ coldest temp (0C, 32F amb)	198.3	237.9	277.6	317.2	356.9	396.5	198.3	237.9	277.6	317.2	356.9	396.5
Power @ MPT (STC)	1175	1410	1645	1880	2115	2350	2350	2820	3290	3760	4230	4700
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar											
Module Model	ET-P600230											
Voltage @ MPP (STC)	29.4 VDC											
Current @ MPP (STC)	7.82 ADC											
Current, short circuit	8.3 ADC											
OCV @ 25 deg C cells	36.5 VDC											
	Power @ MPP (STC) 230.0 W											
	PTC Power Rating 0.0 W											
	Temp Coeff of Vmpp 0.126 V/degC (Vmpp)											
	Temp Coeff of Vocv 0.126 V/degC (Vocv)											
	NOCT (nom. cell temp) 45.3 deg C 113.54 deg F											
	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output											
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20
Modules per string	5	6	7	8	9	10	5	6	7	8	9	10
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	147.0	176.4	205.8	235.2	264.6	294.0	147.0	176.4	205.8	235.2	264.6	294.0
Vmpt @ max amb temp (30C, 86F amb)	124.8	149.7	174.7	199.6	224.6	249.5	124.8	149.7	174.7	199.6	224.6	249.5
Vmpt @ max amb temp (35C, 95F amb)	121.6	145.9	170.3	194.6	218.9	243.2	121.6	145.9	170.3	194.6	218.9	243.2
Vmpt @ max amb temp (40C, 104F amb)	118.5	142.2	165.8	189.5	213.2	236.9	118.5	142.2	165.8	189.5	213.2	236.9
Vmpt @ max amb temp (45C, 113F amb)	115.3	138.4	161.4	184.5	207.6	230.6	115.3	138.4	161.4	184.5	207.6	230.6
Vmpt @ max amb temp (50C, 122F amb)	112.2	134.6	157.0	179.5	201.9	224.3	112.2	134.6	157.0	179.5	201.9	224.3
OCV @ 25 deg C cells	182.5	219.0	255.5	292.0	328.5	365.0	182.5	219.0	255.5	292.0	328.5	365.0
OCV @ coldest temp (-40C, -40F amb)	223.5	268.1	312.8	357.5	402.2	446.9	223.5	268.1	312.8	357.5	402.2	446.9
OCV @ coldest temp (-30C, -22F amb)	217.2	260.6	304.0	347.4	390.9	434.3	217.2	260.6	304.0	347.4	390.9	434.3
OCV @ coldest temp (-20C, -4F amb)	210.9	253.0	295.2	337.4	379.5	421.7	210.9	253.0	295.2	337.4	379.5	421.7
OCV @ coldest temp (-10C, 14F amb)	204.6	245.5	286.4	327.3	368.2	409.1	204.6	245.5	286.4	327.3	368.2	409.1
OCV @ coldest temp (0C, 32F amb)	198.3	237.9	277.6	317.2	356.9	396.5	198.3	237.9	277.6	317.2	356.9	396.5
Power @ MPT (STC)	1175	1410	1645	1880	2115	2350	2350	2820	3290	3760	4230	4700
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar											
Module Model	ET-P600225											
Voltage @ MPP (STC)	29 VDC											
Current @ MPP (STC)	7.75 ADC											
Current, short circuit	8.1 ADC											
OCV @ 25 deg C cells	36.3 VDC											
	Power @ MPP (STC) 225.0 W											
	PTC Power Rating 0.0 W											
	Temp Coeff of Vmpp 0.126 V/degC (Vmpp)											
	Temp Coeff of Vocv 0.126 V/degC (Vocv)											
	NOCT (nom. cell temp) 45.3 deg C 113.54 deg F											
	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output											
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20
Modules per string	5	6	7	8	9	10	5	6	7	8	9	10
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	145.0	174.0	203.0	232.0	261.0	290.0	145.0	174.0	203.0	232.0	261.0	290.0
Vmpt @ max amb temp (30C, 86F amb)	122.8	147.3	171.9	196.4	221.0	245.5	122.8	147.3	171.9	196.4	221.0	245.5
Vmpt @ max amb temp (35C, 95F amb)	119.6	143.5	167.5	191.4	215.3	239.2	119.6	143.5	167.5	191.4	215.3	239.2
Vmpt @ max amb temp (40C, 104F amb)	116.5	139.8	163.0	186.3	209.6	232.9	116.5	139.8	163.0	186.3	209.6	232.9
Vmpt @ max amb temp (45C, 113F amb)	113.3	136.0	158.6	181.3	204.0	226.6	113.3	136.0	158.6	181.3	204.0	226.6
Vmpt @ max amb temp (50C, 122F amb)	110.2	132.2	154.2	176.3	198.3	220.3	110.2	132.2	154.2	176.3	198.3	220.3
OCV @ 25 deg C cells	181.5	217.8	254.1	290.4	326.7	363.0	181.5	217.8	254.1	290.4	326.7	363.0
OCV @ coldest temp (-40C, -40F amb)	222.5	266.9	311.4	355.9	400.4	444.9	222.5	266.9	311.4	355.9	400.4	444.9
OCV @ coldest temp (-30C, -22F amb)	216.2	259.4	302.6	345.8	389.1	432.3	216.2	259.4	302.6	345.8	389.1	432.3
OCV @ coldest temp (-20C, -4F amb)	209.9	251.8	293.8	335.8	377.7	419.7	209.9	251.8	293.8	335.8	377.7	419.7
OCV @ coldest temp (-10C, 14F amb)	203.6	244.3	285.0	325.7	366.4	407.1	203.6	244.3	285.0	325.7	366.4	407.1
OCV @ coldest temp (0C, 32F amb)	197.3	236.7	276.2	315.6	355.1	394.5	197.3	236.7	276.2	315.6	355.1	394.5
Power @ MPT (STC)	1125	1350	1575	1800	2025	2250	2250	2700	3150	3600	4050	4500
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer	ET Solar										
Module Model	ET-P600220										
Voltage @ MPP (STC)	29 VDC										
Current @ MPP (STC)	7.58 ADC										
Current, short circuit	8.1 ADC										
OCV @ 25 deg C cells	36.3 VDC										
	Power @ MPP (STC) 220.0 W										
	PTC Power Rating 0.0 W										
	Temp Coeff of Vmpp 0.126 V/degC (Vmpp)										
	Temp Coeff of Vocv 0.126 V/degC (Vocv)										
	NOCT (nom. cell temp) 45.3 deg C 113.54 deg F										
	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Modules total in array											

Module Manufacturer	ET Solar										Power @ MPP (STC)										215.0 W	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model	ET-P660215										PTC Power Rating										0.0 W	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Voltage @ MPP (STC)	29 VDC										Temp Coeff of Vmp										0.125 V/degC	(Vmp)									
Current @ MPP (STC)	7.41 ADC										Temp Coeff of Voc										0.125 V/degC	(Voc)									
Current, short circuit	8.1 ADC										NOCT (nom. cell temp)										45.3 deg C	113.54 deg F									
OCV @ 25 deg C cells	36 VDC																														
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Modules per string	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2							
Voltage @ MPT (STC)	145.0	174.0	203.0	232.0	261.0	290.0	145.0	174.0	203.0	232.0	261.0	290.0	145.0	174.0	203.0	232.0	261.0	290.0	145.0	174.0	203.0	232.0	261.0	290.0							
Vmpt @ max amb temp (30C, 86F amb)	122.3	147.5	172.1	196.7	221.3	245.9	122.3	147.5	172.1	196.7	221.3	245.9	122.3	147.5	172.1	196.7	221.3	245.9	122.3	147.5	172.1	196.7	221.3	245.9							
Vmpt @ max amb temp (35C, 95F amb)	119.8	143.8	167.7	191.7	215.7	239.6	119.8	143.8	167.7	191.7	215.7	239.6	119.8	143.8	167.7	191.7	215.7	239.6	119.8	143.8	167.7	191.7	215.7	239.6							
Vmpt @ max amb temp (40C, 104F amb)	116.7	140.0	163.4	186.7	210.0	233.4	116.7	140.0	163.4	186.7	210.0	233.4	116.7	140.0	163.4	186.7	210.0	233.4	116.7	140.0	163.4	186.7	210.0	233.4							
Vmpt @ max amb temp (45C, 113F amb)	113.6	136.3	159.0	181.7	204.4	227.1	113.6	136.3	159.0	181.7	204.4	227.1	113.6	136.3	159.0	181.7	204.4	227.1	113.6	136.3	159.0	181.7	204.4	227.1							
Vmpt @ max amb temp (50C, 122F amb)	110.4	132.5	154.6	176.7	198.8	220.9	110.4	132.5	154.6	176.7	198.8	220.9	110.4	132.5	154.6	176.7	198.8	220.9	110.4	132.5	154.6	176.7	198.8	220.9							
OCV @ 25 deg C cells	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0							
OCV @ coldest temp (-40C, -40F amb)	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3							
OCV @ coldest temp (-30C, -22F amb)	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8							
OCV @ coldest temp (-20C, -4F amb)	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3							
OCV @ coldest temp (-10C, 14F amb)	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8							
OCV @ coldest temp (0C, 32F amb)	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3							
Power @ MPT (STC)	1075	1290	1505	1720	1935	2150	1075	1290	1505	1720	1935	2150	1075	1290	1505	1720	1935	2150	1075	1290	1505	1720	1935	2150							
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	ET Solar										Power @ MPP (STC)										210.0 W	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model	ET-P660210										PTC Power Rating										0.0 W	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Voltage @ MPP (STC)	28.75 VDC										Temp Coeff of Vmp										0.125 V/degC	(Vmp)									
Current @ MPP (STC)	7.3 ADC										Temp Coeff of Voc										0.125 V/degC	(Voc)									
Current, short circuit	7.99 ADC										NOCT (nom. cell temp)										45.3 deg C	113.54 deg F									
OCV @ 25 deg C cells	36 VDC																														
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Modules per string	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2							
Voltage @ MPT (STC)	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5							
Vmpt @ max amb temp (30C, 86F amb)	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4							
Vmpt @ max amb temp (35C, 95F amb)	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1							
Vmpt @ max amb temp (40C, 104F amb)	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9							
Vmpt @ max amb temp (45C, 113F amb)	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6							
Vmpt @ max amb temp (50C, 122F amb)	109.2	131.0	152.9	174.7	196.5	218.4	109.2	131.0	152.9	174.7	196.5	218.4	109.2	131.0	152.9	174.7	196.5	218.4	109.2	131.0	152.9	174.7	196.5	218.4							
OCV @ 25 deg C cells	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0	180.0	216.0	252.0	288.0	324.0	360.0							
OCV @ coldest temp (-40C, -40F amb)	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3	220.6	264.8	308.9	353.0	397.1	441.3							
OCV @ coldest temp (-30C, -22F amb)	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8	214.4	257.3	300.1	343.0	385.9	428.8							
OCV @ coldest temp (-20C, -4F amb)	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3	208.1	249.8	291.4	333.0	374.6	416.3							
OCV @ coldest temp (-10C, 14F amb)	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8	201.9	242.3	282.6	323.0	363.4	403.8							
OCV @ coldest temp (0C, 32F amb)	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3	195.6	234.8	273.9	313.0	352.1	391.3							
Power @ MPT (STC)	1050	1260	1470	1680	1890	2100	1050	1260	1470	1680	1890	2100	1050	1260	1470	1680	1890	2100	1050	1260	1470	1680	1890	2100							
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	ET Solar										Power @ MPP (STC)										205.0 W	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model	ET-P660205										PTC Power Rating										0.0 W	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Voltage @ MPP (STC)	28.75 VDC										Temp Coeff of Vmp										0.125 V/degC	(Vmp)									
Current @ MPP (STC)	7.13 ADC										Temp Coeff of Voc										0.125 V/degC	(Voc)									
Current, short circuit	7.8 ADC										NOCT (nom. cell temp)										45.3 deg C	113.54 deg F									
OCV @ 25 deg C cells	36 VDC																														
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Modules per string	5	6	7	8	9	10	10	12	14	16	18	20	5	6	7	8	9	10	5	6	7	8	9	10							
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2							
Voltage @ MPT (STC)	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5	143.8	172.5	201.3	230.0	258.8	287.5							
Vmpt @ max amb temp (30C, 86F amb)	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4	121.7	146.0	170.4	194.7	219.0	243.4							
Vmpt @ max amb temp (35C, 95F amb)	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1	118.6	142.3	166.0	189.7	213.4	237.1							
Vmpt @ max amb temp (40C, 104F amb)	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9	115.4	138.5	161.6	184.7	207.8	230.9							
Vmpt @ max amb temp (45C, 113F amb)	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6	112.3	134.8	157.2	179.7	202.2	224.6							
Vmpt @ max amb temp (50C, 122F amb)	109.2	131.0	152.9	174.7	196.5	218.4	109.2	131.0	152.9	174.7	196.5	218.4	109.2	131.0	152.9	174.7															

Module Manufacturer ET Solar
Module Model ET-P654210
Voltage @ MPT (STC) 27.54 VDC
Current @ MPT (STC) 7.63 ADC
Current, short circuit 8.3 ADC
OCV @ 25 deg C cells 32.83 VDC
Power @ MPT 210.0 W
PTC Power Rating 187.9 W
Temp Coeff of Vmp 0.114 V/degC
Temp Coeff of Vocv 0.114 V/degC
NOCT (nom. cell temp) 45.3 deg C
113.54 deg F
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer ET Solar
Module Model ET-P654205
Voltage @ MPT (STC) 27.3 VDC
Current @ MPT (STC) 7.5 ADC
Current, short circuit 8.1 ADC
OCV @ 25 deg C cells 32.8 VDC
Power @ MPT 203.0 W
PTC Power Rating 185.3 W
Temp Coeff of Vmp 0.113 V/degC
Temp Coeff of Vocv 0.113 V/degC
NOCT (nom. cell temp) 45.3 deg C
113.54 deg F
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer ET Solar
Module Model ET-P654200
Voltage @ MPT (STC) 27.21 VDC
Current @ MPT (STC) 7.36 ADC
Current, short circuit 7.86 ADC
OCV @ 25 deg C cells 32.72 VDC
Power @ MPT 200.0 W
PTC Power Rating 178.7 W
Temp Coeff of Vmp 0.113 V/degC
Temp Coeff of Vocv 0.113 V/degC
NOCT (nom. cell temp) 45.3 deg C
113.54 deg F
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer ET Solar
Module Model ET-P654195
Voltage @ MPT (STC) 27 VDC
Current @ MPT (STC) 7.22 ADC
Current, short circuit 7.98 ADC
OCV @ 25 deg C cells 32.75 VDC
Power @ MPT 195.0 W
PTC Power Rating 174.1 W
Temp Coeff of Vmp 0.113 V/degC
Temp Coeff of Vocv 0.113 V/degC
NOCT (nom. cell temp) 45.3 deg C
113.54 deg F
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer ET Solar
Module Model ET-P654190
Voltage @ MPT (STC) 26.78 VDC
Current @ MPT (STC) 7.1 ADC
Current, short circuit 7.72 ADC
OCV @ 25 deg C cells 32.5 VDC
Power @ MPT 190.0 W
PTC Power Rating 169.5 W
Temp Coeff of Vmp 0.113 V/degC
Temp Coeff of Vocv 0.112 V/degC
NOCT (nom. cell temp) 45.3 deg C
113.54 deg F
For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	ET Solar										Power @ MPT	185.0 W			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output					
Module Model	ET-P64185										PTC Power Rating	165.0 W								
Voltage @ MPT (STC)	26.45 VDC										PTC Power Rating	165.0 W								
Current @ MPT (STC)	6.99 ADC										Temp Coeff of Vmp	0.112 V/degC	(Vmp)							
Current, short circuit	7.7 ADC										Temp Coeff of Voc	0.112 V/degC	(Voc)							
OCV @ 25 deg C cells	32.3 VDC										NOCT (nom. cell temp)	45.3 deg C		113.54 deg F						
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	158.7	185.2	211.6	238.1	264.5	291.0	158.7	185.2	211.6	238.1										
Vmp @ max amb temp (30C, 86F amb)	135.0	157.5	180.0	202.5	225.0	247.5	135.0	157.5	180.0	202.5										
Vmp @ max amb temp (35C, 95F amb)	131.6	153.6	175.5	197.4	219.4	241.3	131.6	153.6	175.5	197.4										
Vmp @ max amb temp (40C, 104F amb)	128.3	149.6	171.0	192.4	213.8	235.1	128.3	149.6	171.0	192.4										
Vmp @ max amb temp (45C, 113F amb)	124.9	145.7	166.5	187.3	208.2	229.0	124.9	145.7	166.5	187.3										
Vmp @ max amb temp (50C, 122F amb)	121.5	141.8	162.1	182.3	202.6	222.8	121.5	141.8	162.1	182.3										
OCV @ 25 deg C cells	193.8	226.1	258.4	290.7	323.0	355.3	193.8	226.1	258.4	290.7										
OCV @ coldest temp (-40C, -40F amb)	237.5	277.1	316.6	356.2	395.8	435.4	237.5	277.1	316.6	356.2										
OCV @ coldest temp (-30C, -22F amb)	230.8	269.2	307.7	346.1	384.6	423.1	230.8	269.2	307.7	346.1										
OCV @ coldest temp (-20C, -4F amb)	224.0	261.4	298.7	336.1	373.4	410.7	224.0	261.4	298.7	336.1										
OCV @ coldest temp (-10C, 14F amb)	217.3	255.5	292.8	329.9	367.2	394.4	217.3	255.5	292.8	329.9										
OCV @ coldest temp (0C, 32F amb)	210.6	245.7	280.8	315.9	351.0	386.1	210.6	245.7	280.8	315.9										
Power @ MPT (STC)	1110	1295	1480	1665	1850	2035	1110	1295	1480	1665										
PTC AC system power rating	916	1068	1221	1374	1526	1679	916	1068	1221	1374										
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	ET Solar										Power @ MPT	180.0 W			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output					
Module Model	ET-P64180										PTC Power Rating	160.4 W								
Voltage @ MPT (STC)	26.45 VDC										PTC Power Rating	160.4 W								
Current @ MPT (STC)	6.81 ADC										Temp Coeff of Vmp	0.112 V/degC	(Vmp)							
Current, short circuit	7.6 ADC										Temp Coeff of Voc	0.112 V/degC	(Voc)							
OCV @ 25 deg C cells	32.35 VDC										NOCT (nom. cell temp)	45.3 deg C		113.54 deg F						
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	158.7	185.2	211.6	238.1	264.5	291.0	158.7	185.2	211.6	238.1										
Vmp @ max amb temp (30C, 86F amb)	135.0	157.5	180.0	202.5	225.0	247.5	135.0	157.5	180.0	202.5										
Vmp @ max amb temp (35C, 95F amb)	131.6	153.6	175.5	197.4	219.4	241.3	131.6	153.6	175.5	197.4										
Vmp @ max amb temp (40C, 104F amb)	128.3	149.6	171.0	192.4	213.8	235.1	128.3	149.6	171.0	192.4										
Vmp @ max amb temp (45C, 113F amb)	124.9	145.7	166.5	187.3	208.2	229.0	124.9	145.7	166.5	187.3										
Vmp @ max amb temp (50C, 122F amb)	121.5	141.8	162.1	182.3	202.6	222.8	121.5	141.8	162.1	182.3										
OCV @ 25 deg C cells	194.1	226.5	258.8	291.2	323.5	355.9	194.1	226.5	258.8	291.2										
OCV @ coldest temp (-40C, -40F amb)	237.8	277.4	317.0	356.7	396.3	435.9	237.8	277.4	317.0	356.7										
OCV @ coldest temp (-30C, -22F amb)	231.1	269.6	308.1	346.6	385.1	423.6	231.1	269.6	308.1	346.6										
OCV @ coldest temp (-20C, -4F amb)	224.3	261.7	299.1	336.5	373.9	411.3	224.3	261.7	299.1	336.5										
OCV @ coldest temp (-10C, 14F amb)	217.6	253.9	290.2	326.4	362.7	399.0	217.6	253.9	290.2	326.4										
OCV @ coldest temp (0C, 32F amb)	210.9	246.1	281.2	316.4	351.5	386.7	210.9	246.1	281.2	316.4										
Power @ MPT (STC)	1080	1260	1440	1620	1800	1980	1080	1260	1440	1620										
PTC AC system power rating	890	1039	1187	1335	1484	1632	890	1039	1187	1335										
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	ET Solar										Power @ MPT	195.0 W			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output					
Module Model	ET-P64195										PTC Power Rating	0.0 W	estimated							
Voltage @ MPT (STC)	23.5 VDC										PTC Power Rating	0.0 W	estimated							
Current @ MPT (STC)	8.29 ADC										Temp Coeff of Vmp	0.101 V/degC	(Vmp)							
Current, short circuit	8.5 ADC										Temp Coeff of Voc	0.101 V/degC	(Voc)							
OCV @ 25 deg C cells	29.2 VDC										NOCT (nom. cell temp)	45.3 deg C		113.54 deg F						
Modules total in array	7	8	9	10	11	12	14	16	18	20	22	24								
Modules per string	7	8	9	10	11	12	7	8	9	10	11	12								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2								
Voltage @ MPT (STC)	164.5	188.0	211.5	235.0	258.5	282.0	164.5	188.0	211.5	235.0	258.5	282.0								
Vmp @ max amb temp (30C, 86F amb)	139.5	159.5	179.4	199.3	219.3	239.2	139.5	159.5	179.4	199.3	219.3	239.2								
Vmp @ max amb temp (35C, 95F amb)	136.0	155.4	174.9	194.3	213.7	233.2	136.0	155.4	174.9	194.3	213.7	233.2								
Vmp @ max amb temp (40C, 104F amb)	132.5	151.4	170.3	189.2	208.2	227.1	132.5	151.4	170.3	189.2	208.2	227.1								
Vmp @ max amb temp (45C, 113F amb)	128.9	147.4	165.8	184.2	202.6	221.0	128.9	147.4	165.8	184.2	202.6	221.0								
Vmp @ max amb temp (50C, 122F amb)	125.4	143.3	161.2	179.1	197.1	215.0	125.4	143.3	161.2	179.1	197.1	215.0								
OCV @ 25 deg C cells	204.4	233.6	262.8	292.0	321.2	350.4	204.4	233.6	262.8	292.0	321.2	350.4								
OCV @ coldest temp (-40C, -40F amb)	250.4	286.1	321.9	357.7	393.4	429.2	250.4	286.1	321.9	357.7	393.4	429.2								
OCV @ coldest temp (-30C, -22F amb)	243.3	278.0	312.8	347.6	382.3	417.1	243.3	278.0	312.8	347.6	382.3	417.1								
OCV @ coldest temp (-20C, -4F amb)	236.2	270.0	303.7	337.5	371.2	404.9	236.2	270.0	303.7	337.5	371.2	404.9								
OCV @ coldest temp (-10C, 14F amb)	229.1	261.9	294.6	327.4	360.1	392.8	229.1	261.9	294.6	327.4	360.1	392.8								
OCV @ coldest temp (0C, 32F amb)	222.1	253.8	285.5	317.3	349.0	380.7	222.1	253.8	285.5	317.3	349.0	380.7								
Power @ MPT	1330	1520	1710	1900	2090	2280	1330	1520	1710	1900	2090	2280								
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0								
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	ET Solar										Power @ MPT	190.0 W			For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output					
Module Model	ET-P64190										PTC Power Rating	0.0 W	estimated							
Voltage @ MPT (STC)	23.5 VDC										PTC Power Rating	0.0 W	estimated							
Current @ MPT (STC)	8.09 ADC										Temp Coeff of Vmp	0.101 V/degC	(Vmp)							
Current, short circuit	8.41 ADC										Temp Coeff of Voc	0.101 V/degC	(Voc)							
OCV @ 25 deg C cells	29.2 VDC										NOCT (nom. cell temp)	45.3 deg C		113.54 deg F						
Modules total in array	7	8	9	10	11	12	14	16	18	20	22	24								
Modules per string	7	8	9	10	11	12	7	8	9	10	11	12								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2								
Voltage @ MPT (STC)	164.5	188.0	211.5	235.0	258.5	282.0	164.5	188.0	211.5	235.0	258.5	282.0								

Module Manufacturer	ET Solar		Power @ MPT		155.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model	ET-P648155		PTC Power Rating		0.0 W													
Voltage @ MPT (STC)	23 VDC		Temp Coeff of Vmpt		0.1 V/degC	(Vmpt)												
Current @ MPT (STC)	6.73 ADC		Temp Coeff of Vocv		0.1 V/degC	(Vocv)												
Current, short circuit	7.6 ADC		NOCT (nom. cell temp)		45.3 deg C	113.54 deg F												
OCV @ 25 deg C cells	29 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20	22	24	26	28	30	32		
Modules per string	7	8	9	10	11	12	7	8	9	10	11	12	14	15	16	16		
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	161.0	184.0	207.0	230.0	253.0	276.0	161.0	184.0	207.0	230.0	253.0	276.0						
Vmpt @ max amb temp (30C, 86F amb)	136.3	153.8	175.2	194.7	214.2	233.5	136.3	153.8	175.2	194.7	214.2	233.5						
Vmpt @ max amb temp (35C, 95F amb)	132.8	151.8	170.7	189.7	208.7	227.6	132.8	151.8	170.7	189.7	208.7	227.6						
Vmpt @ max amb temp (40C, 104F amb)	129.3	147.8	166.2	184.7	203.2	221.6	129.3	147.8	166.2	184.7	203.2	221.6						
Vmpt @ max amb temp (45C, 113F amb)	125.8	143.8	161.7	179.7	197.7	215.6	125.8	143.8	161.7	179.7	197.7	215.6						
Vmpt @ max amb temp (50C, 122F amb)	122.3	139.8	157.9	172.7	192.2	209.6	122.3	139.8	157.9	172.7	192.2	209.6						
OCV @ 25 deg C cells	203.0	232.0	261.0	290.0	319.0	348.0	203.0	232.0	261.0	290.0	319.0	348.0						
OCV @ coldest temp (-40C, -40F amb)	248.5	284.0	319.5	355.0	390.5	426.0	248.5	284.0	319.5	355.0	390.5	426.0						
OCV @ coldest temp (-30C, -22F amb)	241.5	276.0	310.5	345.0	379.5	414.0	241.5	276.0	310.5	345.0	379.5	414.0						
OCV @ coldest temp (-20C, -4F amb)	234.5	268.0	301.5	335.0	368.5	402.0	234.5	268.0	301.5	335.0	368.5	402.0						
OCV @ coldest temp (-10C, 14F amb)	227.5	260.0	292.5	325.0	357.5	390.0	227.5	260.0	292.5	325.0	357.5	390.0						
OCV @ coldest temp (0C, 32F amb)	220.5	252.0	283.5	315.0	346.5	378.0	220.5	252.0	283.5	315.0	346.5	378.0						
Power @ MPT	1085	1240	1395	1550	1705	1860	2170	2480	2790	3100	3410	3720						
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0						
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer	ET Solar		Power @ MPT		145.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model	ET-P636145		PTC Power Rating		0.0 W													
Voltage @ MPT (STC)	17.8 VDC		Temp Coeff of Vmpt		0.076 V/degC	(Vmpt)												
Current @ MPT (STC)	8.15 ADC		Temp Coeff of Vocv		0.076 V/degC	(Vocv)												
Current, short circuit	8.5 ADC		NOCT (nom. cell temp)		45.3 deg C	113.54 deg F												
OCV @ 25 deg C cells	21.96 VDC																	
Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32		
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	14	15	16	16		
Strings in Parallel	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	160.2	178.0	195.8	213.6	231.4	249.2	267.0	284.8	160.2	178.0	195.8	213.6	231.4	249.2	267.0	284.8		
Vmpt @ max amb temp (30C, 86F amb)	136.1	151.2	166.3	181.4	196.5	211.6	226.8	241.9	136.1	151.2	166.3	181.4	196.5	211.6	226.8	241.9		
Vmpt @ max amb temp (35C, 95F amb)	132.6	147.4	162.1	176.8	191.6	206.3	221.1	235.8	132.6	147.4	162.1	176.8	191.6	206.3	221.1	235.8		
Vmpt @ max amb temp (40C, 104F amb)	129.2	143.6	157.9	172.3	186.6	201.0	215.4	229.7	129.2	143.6	157.9	172.3	186.6	201.0	215.4	229.7		
Vmpt @ max amb temp (45C, 113F amb)	125.8	139.8	153.7	167.7	181.7	195.7	209.7	223.6	125.8	139.8	153.7	167.7	181.7	195.7	209.7	223.6		
Vmpt @ max amb temp (50C, 122F amb)	122.4	136.0	149.6	163.2	176.8	190.4	204.0	217.6	122.4	136.0	149.6	163.2	176.8	190.4	204.0	217.6		
OCV @ 25 deg C cells	197.6	219.6	241.6	263.5	285.5	307.4	329.4	351.4	197.6	219.6	241.6	263.5	285.5	307.4	329.4	351.4		
OCV @ coldest temp (-40C, -40F amb)	242.1	269.0	295.9	322.8	349.7	376.6	403.5	430.4	242.1	269.0	295.9	322.8	349.7	376.6	403.5	430.4		
OCV @ coldest temp (-30C, -22F amb)	235.3	261.4	287.5	313.7	339.8	366.0	392.1	418.2	235.3	261.4	287.5	313.7	339.8	366.0	392.1	418.2		
OCV @ coldest temp (-20C, -4F amb)	228.4	253.8	279.2	304.6	329.9	355.3	380.7	406.1	228.4	253.8	279.2	304.6	329.9	355.3	380.7	406.1		
OCV @ coldest temp (-10C, 14F amb)	221.6	246.2	270.8	295.4	320.1	344.7	369.3	393.9	221.6	246.2	270.8	295.4	320.1	344.7	369.3	393.9		
OCV @ coldest temp (0C, 32F amb)	214.7	238.6	262.5	286.3	310.2	334.0	357.9	381.8	214.7	238.6	262.5	286.3	310.2	334.0	357.9	381.8		
Power @ MPT (STC)	1306	1450	1595	1740	1885	2030	2175	2320	2610	2900	3190	3480	3770	4060	4350	4640		
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	ET Solar		Power @ MPT		140.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model	ET-P636140		PTC Power Rating		0.0 W													
Voltage @ MPT (STC)	17.6 VDC		Temp Coeff of Vmpt		0.076 V/degC	(Vmpt)												
Current @ MPT (STC)	7.95 ADC		Temp Coeff of Vocv		0.076 V/degC	(Vocv)												
Current, short circuit	8.41 ADC		NOCT (nom. cell temp)		45.3 deg C	113.54 deg F												
OCV @ 25 deg C cells	21.96 VDC																	
Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32		
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	14	15	16	16		
Strings in Parallel	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	158.4	176.0	193.6	211.2	228.8	246.4	264.0	281.6	158.4	176.0	193.6	211.2	228.8	246.4	264.0	281.6		
Vmpt @ max amb temp (30C, 86F amb)	134.3	149.2	164.1	179.0	193.9	208.8	223.8	238.7	134.3	149.2	164.1	179.0	193.9	208.8	223.8	238.7		
Vmpt @ max amb temp (35C, 95F amb)	130.8	145.4	159.9	174.4	189.0	203.5	218.1	232.6	130.8	145.4	159.9	174.4	189.0	203.5	218.1	232.6		
Vmpt @ max amb temp (40C, 104F amb)	127.4	141.6	155.7	169.9	184.0	198.2	212.4	226.5	127.4	141.6	155.7	169.9	184.0	198.2	212.4	226.5		
Vmpt @ max amb temp (45C, 113F amb)	124.0	137.8	151.5	165.3	179.1	192.9	206.7	220.4	124.0	137.8	151.5	165.3	179.1	192.9	206.7	220.4		
Vmpt @ max amb temp (50C, 122F amb)	120.6	134.0	147.4	160.8	174.2	187.6	201.0	214.4	120.6	134.0	147.4	160.8	174.2	187.6	201.0	214.4		
OCV @ 25 deg C cells	197.6	219.6	241.6	263.5	285.5	307.4	329.4	351.4	197.6	219.6	241.6	263.5	285.5	307.4	329.4	351.4		
OCV @ coldest temp (-40C, -40F amb)	242.1	269.0	295.9	322.8	349.7	376.6	403.5	430.4	242.1	269.0	295.9	322.8	349.7	376.6	403.5	430.4		
OCV @ coldest temp (-30C, -22F amb)	235.3	261.4	287.5	313.7	339.8	366.0	392.1	418.2	235.3	261.4	287.5	313.7	339.8	366.0	392.1	418.2		
OCV @ coldest temp (-20C, -4F amb)	228.4	253.8	279.2	304.6	329.9	355.3	380.7	406.1	228.4	253.8	279.2	304.6	329.9	355.3	380.7	406.1		
OCV @ coldest temp (-10C, 14F amb)	221.6	246.2	270.8	295.4	320.1	344.7	369.3	393.9	221.6	246.2	270.8	295.4	320.1	344.7	369.3	393.9		
OCV @ coldest temp (0C, 32F amb)	214.7	238.6	262.5	286.3	310.2	334.0	357.9	381.8	214.7	238.6	262.5	286.3	310.2	334.0	357.9	381.8		
Power @ MPT (STC)	1260	1400	1540	1680	1820	1960	2100	2240	2520	2800	3080	3360	3640	3920	4200	4480		
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	ET Solar		Power @ MPT		135.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model	ET-P636135		PTC Power Rating		0.0 W													
Voltage @ MPT (STC)	17.6 VDC		Temp Coeff of Vmpt		0.076 V/degC	(Vmpt)												
Current @ MPT (STC)	7.67 ADC		Temp Coeff of Vocv		0.076 V/degC	(Vocv)												
Current, short circuit	8.41 ADC		NOCT (nom. cell temp)		45.3 deg C	113.54 deg F												
OCV @ 25 deg C cells	21.96 VDC																	
Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32		
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	14	15</				

Module Manufacturer		Evergreen										Power @ MPT			180.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		ES-B-180										PTC Power Rating			159.7 W				
Voltage @ MPT (STC)		17.1 VDC										PTC Power Rating			0.08 V/degC				
Current @ MPT (STC)		10.53 ADC										Temp Coeff of Vmpt			(Vmpt)				
Current, short circuit		11.64 ADC										Temp Coeff of Vocv			(Vocv)				
OCV @ 25 deg C cells		21.3 VDC										NOCT (nom. cell temp)			45.9 deg C				
OCV @ 25 deg C cells		21.3 VDC										NOCT (nom. cell temp)			114.62 deg F				
Modules total in array	9	10	11	12	13	14	15	16	17										
Modules per string	9	10	11	12	13	14	15	16	17										
Strings in Parallel	1	1	1	1	1	1	1	1	1										
Voltage @ MPT (STC)	153.9	171.0	188.1	205.2	222.3	239.4	256.5	273.6	290.7										
Vmpt @ max amb temp (30C, 86F amb)	125.1	142.3	159.5	176.7	193.9	211.1	228.3	245.5	262.7										
Vmpt @ max amb temp (35C, 95F amb)	124.1	138.3	152.1	165.9	179.8	193.6	207.4	221.2	235.1										
Vmpt @ max amb temp (40C, 104F amb)	120.9	134.3	147.7	161.1	174.6	188.0	201.4	214.8	228.3										
Vmpt @ max amb temp (45C, 113F amb)	117.3	130.3	143.3	156.3	169.4	182.4	195.4	208.4	221.5										
Vmpt @ max amb temp (50C, 122F amb)	113.7	126.3	138.9	151.5	164.2	176.8	189.4	202.0	214.7										
Vmpt @ max amb temp (50C, 122F amb)	113.7	126.3	138.9	151.5	164.2	176.8	189.4	202.0	214.7										
OCV @ 25 deg C cells	191.7	213.0	234.3	255.6	276.9	298.2	319.5	340.8	362.1										
OCV @ coldest temp (-40C, -40F amb)	233.8	259.8	285.8	311.8	337.7	363.7	389.7	415.7	441.7										
OCV @ coldest temp (-30C, -22F amb)	227.3	252.6	277.9	303.1	328.4	353.6	378.9	404.2	429.4										
OCV @ coldest temp (-20C, -4F amb)	220.9	245.4	269.9	294.5	319.0	343.6	368.1	392.6	417.2										
OCV @ coldest temp (-10C, 14F amb)	214.4	238.2	262.0	285.8	309.7	333.5	357.3	381.1	404.9										
OCV @ coldest temp (0C, 32F amb)	207.9	231.0	254.1	277.2	300.3	323.4	346.5	369.6	392.7										
Power @ MPT (STC)	1620	1800	1980	2160	2340	2520	2700	2880	3060										
PTC AC system power rating	1330	1477	1625	1773	1920	2068	2228	2376	2525										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer		Evergreen										Power @ MPT			210.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		ES-A-210										PTC Power Rating			189.8 W				
Voltage @ MPT (STC)		18.7 VDC										PTC Power Rating			0.08 V/degC				
Current @ MPT (STC)		11.23 ADC										Temp Coeff of Vmpt			(Vmpt)				
Current, short circuit		12.2 ADC										Temp Coeff of Vocv			(Vocv)				
OCV @ 25 deg C cells		23.1 VDC										NOCT (nom. cell temp)			44.8 deg C				
OCV @ 25 deg C cells		23.1 VDC										NOCT (nom. cell temp)			112.64 deg F				
Modules total in array	8	9	10	11	12	13	14	15											
Modules per string	8	9	10	11	12	13	14	15											
Strings in Parallel	1	1	1	1	1	1	1	1											
Voltage @ MPT (STC)	149.6	168.3	187.0	205.7	224.4	243.1	261.8	280.5											
Vmpt @ max amb temp (30C, 86F amb)	127.3	143.2	159.2	175.1	191.0	206.9	222.8	238.7											
Vmpt @ max amb temp (35C, 95F amb)	124.1	139.6	155.2	170.7	186.2	201.7	217.2	232.7											
Vmpt @ max amb temp (40C, 104F amb)	120.9	136.0	151.2	166.3	181.4	196.5	211.6	226.7											
Vmpt @ max amb temp (45C, 113F amb)	117.7	132.4	147.2	161.9	176.6	191.3	206.0	220.7											
Vmpt @ max amb temp (50C, 122F amb)	114.5	128.8	143.2	157.5	171.8	186.1	200.4	214.7											
Vmpt @ max amb temp (50C, 122F amb)	114.5	128.8	143.2	157.5	171.8	186.1	200.4	214.7											
OCV @ 25 deg C cells	184.8	207.9	231.0	254.1	277.2	300.3	323.4	346.5											
OCV @ coldest temp (-40C, -40F amb)	223.3	251.2	279.1	307.0	334.9	362.8	390.7	418.7											
OCV @ coldest temp (-30C, -22F amb)	217.4	244.5	271.7	298.9	326.0	353.2	380.3	407.4											
OCV @ coldest temp (-20C, -4F amb)	211.4	237.9	264.3	290.7	317.2	343.6	370.0	396.5											
OCV @ coldest temp (-10C, 14F amb)	205.5	231.2	256.9	282.6	308.3	334.0	359.7	385.4											
OCV @ coldest temp (0C, 32F amb)	199.6	224.6	249.5	274.5	299.4	324.4	349.3	374.3											
Power @ MPT (STC)	1680	1890	2100	2310	2520	2730	2940	3150											
PTC AC system power rating	1405	1590	1785	1981	2107	2282	2471	2648											
Suggested inverter	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500											

Module Manufacturer		Evergreen										Power @ MPT			205.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		ES-A-205										PTC Power Rating			185.2 W				
Voltage @ MPT (STC)		18.4 VDC										PTC Power Rating			0.079 V/degC				
Current @ MPT (STC)		11.15 ADC										Temp Coeff of Vmpt			(Vmpt)				
Current, short circuit		12.1 ADC										Temp Coeff of Vocv			(Vocv)				
OCV @ 25 deg C cells		22.8 VDC										NOCT (nom. cell temp)			44.8 deg C				
OCV @ 25 deg C cells		22.8 VDC										NOCT (nom. cell temp)			112.64 deg F				
Modules total in array	8	9	10	11	12	13	14	15											
Modules per string	8	9	10	11	12	13	14	15											
Strings in Parallel	1	1	1	1	1	1	1	1											
Voltage @ MPT (STC)	147.2	165.6	184.0	202.4	220.8	239.2	257.6	276.0											
Vmpt @ max amb temp (30C, 86F amb)	125.2	140.9	156.5	172.2	187.8	203.5	219.1	234.8											
Vmpt @ max amb temp (35C, 95F amb)	122.0	137.3	152.6	167.8	183.1	198.3	213.6	228.8											
Vmpt @ max amb temp (40C, 104F amb)	118.9	133.7	148.6	163.5	178.3	193.2	208.1	222.9											
Vmpt @ max amb temp (45C, 113F amb)	115.7	130.2	144.7	159.1	173.6	188.1	202.5	217.0											
Vmpt @ max amb temp (50C, 122F amb)	112.6	126.6	140.7	154.8	168.9	183.0	197.0	211.1											
Vmpt @ max amb temp (50C, 122F amb)	112.6	126.6	140.7	154.8	168.9	183.0	197.0	211.1											
OCV @ 25 deg C cells	182.4	205.2	228.0	250.8	273.6	296.4	319.2	342.0											
OCV @ coldest temp (-40C, -40F amb)	220.4	247.9	275.5	303.0	330.5	358.1	385.6	413.2											
OCV @ coldest temp (-30C, -22F amb)	214.5	241.3	268.2	295.0	321.8	348.6	375.4	402.2											
OCV @ coldest temp (-20C, -4F amb)	208.7	234.8	260.9	286.9	313.0	339.1	365.2	391.3											
OCV @ coldest temp (-10C, 14F amb)	202.8	228.6	254.6	280.6	306.5	332.5	358.5	384.5											
OCV @ coldest temp (0C, 32F amb)	197.0	221.6	246.3	270.9	295.5	320.1	344.8	369.4											
Power @ MPT (STC)	1640	1845	2050	2255	2460	2665	2870	3075											
PTC AC system power rating	1370	1542	1713	1884	2056	2227	2411	2584											
Suggested inverter	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500											

Module Manufacturer		Evergreen										Power @ MPT			200.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		ES-A-200										PTC Power Rating			180.6 W				
Voltage @ MPT (STC)		18.1 VDC										PTC Power Rating			0.078 V/degC				
Current @ MPT (STC)		11.05 ADC										Temp Coeff of Vmpt			(Vmpt)				
Current, short circuit		12.0 ADC										Temp Coeff of Vocv			(Vocv)				
OCV @ 25 deg C cells		22.5 VDC										NOCT (nom. cell temp)			44.8 deg C				
OCV @ 25 deg C cells		22.5 VDC										NOCT (nom. cell temp)			112.64 deg F				
Modules total in array	8	9	10	11	12	13	14	15	16										
Modules per string	8	9	10	11	12	13	14	15	16										
Strings in Parallel	1	1	1	1	1	1	1	1	1										
Voltage @ MPT (STC)	144.8	162.9	181.0	199.1	217.2	235.3	253.4	271.5	289.6										
Vmpt @ max amb temp (30C, 86F amb)	123.1	138.5	153.9	169.2	184.6	200.0	215.4	230.8	246.2										
Vmpt @ max amb temp (35C, 95F amb)	120.0	135.0	150.0	165.0	179.9	194.9	209.9	224.9	239.9										
Vmpt @ max amb temp (40C, 104F amb)	116.8	131.5	146.1	160.7	175.3	189.9	204.5	219.1	233.7										
Vmpt @ max amb temp (45C, 113F amb)	113.7	127.9	142.2	156.4	170.6	184.8	199.0	213.2	227.4										
Vmpt @ max amb temp (50C, 122F amb)	110.6	124.4	138.3	152.1	165.9	179.7	193.6	207.4	221.2										
Vmpt @ max amb temp (50C, 122F amb)	110.6	124.4	138.3	152.1	165.9	179.7	193.6	207.4	221.2										
OCV @ 25 deg C cells	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5	360.0										
OCV @ coldest temp (-40C, -40F amb)	217.4	244.6	271.8	299.0	326.2	353.3													

Module Manufacturer	Evergreen										Power @ MPT		195.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	ES-195-RL										PTC Power Rating		173.3 W				
Voltage @ MPT (STC)	27.1 VDC										Temp Coeff of Vmppt		0.125 V/degC (Vmppt)				
Current @ MPT (STC)	7.2 ADC										Temp Coeff of Vocv		0.112 V/degC (Vocv)				
Current, short circuit	8.15 ADC										NOCT (nom. cell temp)		45.9 deg C				
OCV @ 25 deg C cells	32.9 VDC												114.62 deg F				
Modules total in array	6	7	8	9	10	11	12	14	16	18							
Modules per string	6	7	8	9	10	11	6	7	8	9							
Strings in Parallel	1	1	1	1	1	1	2	2	2	2							
Voltage @ MPT (STC)	162.6	189.7	216.8	243.9	271.0	298.1	162.6	189.7	216.8	243.9							
Vmppt @ max amb temp (30C, 86F amb)	135.7	158.3	180.9	203.5	226.1	248.7	135.7	158.3	180.9	203.5							
Vmppt @ max amb temp (35C, 95F amb)	131.9	153.9	175.9	197.9	219.9	241.9	131.9	153.9	175.9	197.9							
Vmppt @ max amb temp (40C, 104F amb)	128.2	149.5	170.9	192.3	213.6	235.0	128.2	149.5	170.9	192.3							
Vmppt @ max amb temp (45C, 113F amb)	124.4	145.2	165.9	186.6	207.4	228.1	124.4	145.2	165.9	186.6							
Vmppt @ max amb temp (50C, 122F amb)	120.7	140.8	160.9	181.0	201.1	221.2	120.7	140.8	160.9	181.0							
OCV @ 25 deg C cells	197.4	230.3	263.2	296.1	329.0	361.9	197.4	230.3	263.2	296.1							
OCV @ coldest temp (-40C, -40F amb)	241.1	281.3	321.4	361.6	401.8	442.0	241.1	281.3	321.4	361.6							
OCV @ coldest temp (-30C, -22F amb)	234.4	273.4	312.5	351.5	390.6	429.7	234.4	273.4	312.5	351.5							
OCV @ coldest temp (-20C, -4F amb)	227.6	265.6	303.5	341.5	379.4	417.3	227.6	265.6	303.5	341.5							
OCV @ coldest temp (-10C, 14F amb)	220.9	257.7	294.6	331.4	368.2	405.0	220.9	257.7	294.6	331.4							
OCV @ coldest temp (0C, 32F amb)	214.2	249.9	285.6	321.3	357.0	392.7	214.2	249.9	285.6	321.3							
Power @ MPT (STC)	1170	1365	1560	1755	1950	2145	1170	1365	1560	1755	1950	2145	2340	2730	3120	3510	
PTC AC system power rating	962	1122	1282	1443	1603	1763	962	1122	1282	1443	1603	1763	1934	2256	2579	2901	
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

Module Manufacturer	Evergreen										Power @ MPT		190.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	ES-A-190										PTC Power Rating		188.8 W				
Voltage @ MPT (STC)	17.4 VDC										Temp Coeff of Vmppt		0.075 V/degC (Vmppt)				
Current @ MPT (STC)	10.92 ADC										Temp Coeff of Vocv		0.07 V/degC (Vocv)				
Current, short circuit	11.8 ADC										NOCT (nom. cell temp)		44.8 deg C				
OCV @ 25 deg C cells	22 VDC												112.64 deg F				
Modules total in array	9	10	11	12	13	14	15	16									
Modules per string	9	10	11	12	13	14	15	16									
Strings in Parallel	1	1	1	1	1	1	1	1									
Voltage @ MPT (STC)	156.6	174.0	191.4	208.8	226.2	243.6	261.0	278.4									
Vmppt @ max amb temp (30C, 86F amb)	133.1	147.9	162.7	177.5	192.3	207.1	221.9	236.6									
Vmppt @ max amb temp (35C, 95F amb)	129.7	144.2	158.6	173.0	187.4	201.8	216.2	230.6									
Vmppt @ max amb temp (40C, 104F amb)	126.4	140.4	154.4	168.5	182.5	196.5	210.6	224.6									
Vmppt @ max amb temp (45C, 113F amb)	123.1	136.7	150.3	164.0	177.6	191.3	205.0	218.6									
Vmppt @ max amb temp (50C, 122F amb)	119.6	132.9	146.2	159.5	172.8	186.1	199.4	212.6									
OCV @ 25 deg C cells	198.0	225.0	242.0	264.0	286.0	308.0	330.0	352.0									
OCV @ coldest temp (-40C, -40F amb)	239.0	260.5	292.1	318.6	345.2	371.7	398.3	424.8									
OCV @ coldest temp (-30C, -22F amb)	232.7	255.5	284.4	310.2	336.1	361.9	387.7	413.6									
OCV @ coldest temp (-20C, -4F amb)	226.4	251.5	276.7	301.8	327.0	352.1	377.3	402.4									
OCV @ coldest temp (-10C, 14F amb)	220.1	244.5	269.0	293.4	317.9	342.3	366.8	391.2									
OCV @ coldest temp (0C, 32F amb)	213.8	237.5	261.3	285.0	308.8	332.5	356.3	380.0									
Power @ MPT (STC)	1710	1990	2090	2280	2470	2660	2850	3040									
PTC AC system power rating	1426	1595	1743	1911	2060	2230	2390	2549									
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500									

Module Manufacturer	Evergreen										Power @ MPT		190.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	ES-190-RL										PTC Power Rating		188.8 W				
Voltage @ MPT (STC)	26.7 VDC										Temp Coeff of Vmppt		0.125 V/degC (Vmppt)				
Current @ MPT (STC)	7.12 ADC										Temp Coeff of Vocv		0.112 V/degC (Vocv)				
Current, short circuit	8.05 ADC										NOCT (nom. cell temp)		45.9 deg C				
OCV @ 25 deg C cells	32.8 VDC												114.62 deg F				
Modules total in array	6	7	8	9	10	11	12	14	16	18							
Modules per string	6	7	8	9	10	11	6	7	8	9							
Strings in Parallel	1	1	1	1	1	1	2	2	2	2							
Voltage @ MPT (STC)	160.2	186.9	213.6	240.3	267.0	293.7	160.2	186.9	213.6	240.3							
Vmppt @ max amb temp (30C, 86F amb)	133.3	155.5	177.7	199.9	222.1	244.3	133.3	155.5	177.7	199.9							
Vmppt @ max amb temp (35C, 95F amb)	129.5	151.1	172.7	194.3	215.9	237.5	129.5	151.1	172.7	194.3							
Vmppt @ max amb temp (40C, 104F amb)	125.8	146.7	167.7	188.7	209.6	230.6	125.8	146.7	167.7	188.7							
Vmppt @ max amb temp (45C, 113F amb)	122.0	142.4	162.7	183.0	203.4	223.7	122.0	142.4	162.7	183.0							
Vmppt @ max amb temp (50C, 122F amb)	118.2	138.0	157.7	177.1	197.1	216.8	118.2	138.0	157.7	177.1							
OCV @ 25 deg C cells	196.8	229.6	262.4	295.2	328.0	360.8	196.8	229.6	262.4	295.2							
OCV @ coldest temp (-40C, -40F amb)	240.5	280.6	320.6	360.7	400.8	440.9	240.5	280.6	320.6	360.7							
OCV @ coldest temp (-30C, -22F amb)	233.8	272.7	311.7	350.6	389.6	428.6	233.8	272.7	311.7	350.6							
OCV @ coldest temp (-20C, -4F amb)	227.0	264.9	302.7	340.6	378.4	416.2	227.0	264.9	302.7	340.6							
OCV @ coldest temp (-10C, 14F amb)	220.3	257.8	295.3	332.8	370.3	407.8	220.3	257.8	295.3	332.8							
OCV @ coldest temp (0C, 32F amb)	213.6	249.2	284.8	320.4	356.0	391.6	213.6	249.2	284.8	320.4							
Power @ MPT (STC)	1140	1330	1520	1710	1900	2090	2280	2660	3040	3420							
PTC AC system power rating	937	1093	1249	1405	1561	1718	1884	2198	2512	2826							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer	Evergreen										Power @ MPT		180.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	ES-180-RL										PTC Power Rating		159.7 W				
Voltage @ MPT (STC)	25.9 VDC										Temp Coeff of Vmppt		0.122 V/degC (Vmppt)				
Current @ MPT (STC)	6.95 ADC										Temp Coeff of Vocv		0.111 V/degC (Vocv)				
Current, short circuit	7.78 ADC										NOCT (nom. cell temp)		45.9 deg C				
OCV @ 25 deg C cells	32.6 VDC												114.62 deg F				
Modules total in array	6	7	8	9	10	11	12	14	16	18							
Modules per string	6	7	8	9	10	11	6	7	8	9							
Strings in Parallel	1	1	1	1	1	1	2	2	2	2							
Voltage @ MPT (STC)	155.4	181.3	207.2	233.1	259.0	284.9	155.4	181.3	207.2	233.1							
Vmppt @ max amb temp (30C, 86F amb)	129.1	150.6	172.2	193.7	215.2	236.7	129.1	150.6	172.2	193.7							
Vmppt @ max amb temp (35C, 95F amb)	125.5	146.4	167.3	188.2	209.1	230.0	125.5	146.4	167.3	188.2							
Vmppt @ max amb temp (40C, 104F amb)	121.9	142.1	162.4	182.7	203.0	223.3	121.9	142.1	162.4	182.7							
Vmppt @ max amb temp (45C, 113F amb)	118.1	137.8	157.5	177.2	196.9	216.6	118.1	137.8	157.5	177.2							
Vmppt @ max amb temp (50C, 122F amb)	114.5	133.6	152.6	171.7	190.8	209.9	114.5	133.6	152.6	171.7							
OCV @ 25 deg C cells	195.6	228.2	260.8	293.4	326.0	358.6	195.6	228.2	260.8	293.4							
OCV @ coldest temp (-40C, -40F amb)	238.9	276.7	316.5	356.3	396.2	436.0	238.9	276.7	316.5	356.3							
OCV @ coldest temp (-30C, -22F amb)	232.2	270.9	309.6	348.3	387.1	425.8	232.2	270.9	309.6	348.3							
OCV @ coldest temp (-20C, -4F amb)	225.6	263.2	300.8	338.4	376.0	413.5	225.6	263.2	300.8	338.4							
OCV @ coldest temp (-10C, 14F amb)	218.9	255.4	291.9	328.4	364.9	401.3	218.9	255.4	291.9	328.4							
OCV @ coldest temp (0C, 32F amb)	212.3	247.6	283.0	318.4	353.8	389.1	212.3	247.6	283.0	318.4							
Power @ MPT (STC)	1080	1260	1440	1620	1800	1980	2160	2520	2880	3240							
PTC AC system power rating	886	1034	1182	1330	1477	1625	1782	2079	2376	2673							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer	Evergreen										Power @ MPT		170.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	ES-170-RL										PTC Power Rating		150.6 W				
Voltage @ MPT (STC)	25.3 VDC										Temp Coeff of Vmppt		0.119 V/degC (Vmppt)				
Current @ MPT (STC)	6.72 ADC										Temp Coeff of Vocv		0.11 V/degC (Vocv)				
Current, short circuit	7.55 ADC										NOCT (nom. cell temp)		45.9 deg C				
OCV @ 25 deg C cells	32.4 VDC												114.62 deg F				
Modules total in array	6	7	8	9	10	11	12	14	16	18	20						
Modules per string	6	7	8	9	10	11	6	7	8	9	10						
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2						
Voltage @ MPT (STC)	151.8	177.1	202.4	227.7	253.0	278.3	151.8	177.1	202.4	227.7	253.0						
Vmppt @ max amb temp (30C, 86F amb)	126.2	147.2	168.2	189.3	210.3	231.3	126.2	147.2	168.2	189.3	210.3						
Vmppt @ max amb temp (35C, 95F amb)	122.6	143.0	163.5	183.9	204.3	224.8	122.6	143.0	163.5	183.9	204.3						
Vmppt @ max amb temp (40C, 104F amb)	119.0	139.9	158.7	178.5	198.4	218.2	119.0	139.9	158.7	178.5	198.4						
Vmppt @ max amb temp (45C, 113F amb)	115.5	134.7	153.9	173.2	192.4	211.7	115.5	134.7	153.9	173.2	192.4						
Vmppt @ max amb temp (50C, 122F amb)	111.9	130.5	149.2	167.8	186.5	205.1	111.9	130.5	149.2	167.8	186.5						
OCV @ 25 deg C cells	194.4	226.8	259.2	291.6	324.0	356.4	194.4	226.8	259.2	291.6	324.0						
OCV @ coldest temp (-40C, -40F amb)	237.3	276.9	316.4	356.0	395.5	435.1	237.3	276.9	316.4	356.0	395.5						
OCV @ coldest temp (-30C, -22F amb)	230.7	269.2	307.6	346.1	384.5	423.0	230.7	269.2	307.6	346.1	384.5						
OCV @ coldest temp (-20C, -4F amb)	224.1	261.5	298.8	336.2	373.5												

Evergreen		Power @ MPT		120.0 W																			
EC-120-GL		PTC Power Rating		107.5 W																			
Voltage @ MPT (STC)		17.6 VDC		Temp Coeff of Vmp		0.093 V/degC																	
Current @ MPT (STC)		6.82 ADC		Temp Coeff of Voc		0.088 V/degC																	
Current, short circuit		7.68 ADC		NOCT (nom. cell temp)		44 deg C																	
OCV @ 25 deg C cells		21.5 VDC						111.2 deg F															
Modules total in array		9	10	11	12	13	14	15	16	18	20	22	24	26	28								
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14								
Strings in Parallel		1	1	1	1	1	1	1	1	2	2	2	2	2	2								
Voltage @ MPT (STC)		154.4	176.0	193.6	211.2	228.8	246.4	264.0	281.6	158.4	176.0	193.6	211.2	228.8	246.4								
Vmpt @ max amb temp (30C, 86F amb)		129.9	144.4	158.8	173.3	187.7	202.1	216.6	231.0	129.9	144.4	158.8	173.3	187.7	202.1								
Vmpt @ max amb temp (35C, 95F amb)		125.8	139.7	153.7	167.7	181.6	195.6	209.6	223.6	125.8	139.7	153.7	167.7	181.6	195.6								
Vmpt @ max amb temp (40C, 104F amb)		121.6	135.1	148.6	162.1	175.6	189.1	202.6	216.1	121.6	135.1	148.6	162.1	175.6	189.1								
Vmpt @ max amb temp (45C, 113F amb)		117.4	130.4	143.5	156.5	169.6	182.6	195.6	208.7	117.4	130.4	143.5	156.5	169.6	182.6								
Vmpt @ max amb temp (50C, 122F amb)		113.2	125.8	138.4	150.9	163.5	176.1	188.7	201.2	113.2	125.8	138.4	150.9	163.5	176.1								
OCV @ 25 deg C cells		193.5	215.0	236.5	258.0	279.5	301.0	322.5	344.0	193.5	215.0	236.5	258.0	279.5	301.0								
OCV @ coldest temp (-40C, -40F amb)		245.0	272.2	299.4	326.6	353.9	381.1	408.3	435.5	245.0	272.2	299.4	326.6	353.9	381.1								
OCV @ coldest temp (-30C, -22F amb)		237.1	263.4	289.7	316.1	342.4	368.8	395.1	421.4	237.1	263.4	289.7	316.1	342.4	368.8								
OCV @ coldest temp (-20C, -4F amb)		229.1	254.6	280.1	305.5	331.0	356.4	381.9	407.4	229.1	254.6	280.1	305.5	331.0	356.4								
OCV @ coldest temp (-10C, 14F amb)		221.2	245.8	270.4	295.0	319.5	344.1	368.7	393.3	221.2	245.8	270.4	295.0	319.5	344.1								
OCV @ coldest temp (0C, 32F amb)		213.3	237.0	260.7	284.4	308.1	331.8	355.5	379.2	213.3	237.0	260.7	284.4	308.1	331.8								
Power @ MPT		1080	1200	1320	1440	1560	1680	1800	1920	2160	2400	2640	2880	3120	3360								
PTC AC system power rating		895	994	1094	1193	1293	1392	1500	1600	1800	2000	2199	2399	2599	2799								
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Evergreen		Power @ MPT		113.0 W																			
EC-115-GL		PTC Power Rating		103.1 W																			
Voltage @ MPT (STC)		17.1 VDC		Temp Coeff of Vmp		0.09 V/degC																	
Current @ MPT (STC)		6.73 ADC		Temp Coeff of Voc		0.087 V/degC																	
Current, short circuit		7.62 ADC		NOCT (nom. cell temp)		44 deg C																	
OCV @ 25 deg C cells		21.3 VDC						111.2 deg F															
Modules total in array		9	10	11	12	13	14	15	16	18	20	22	24	26	28								
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14								
Strings in Parallel		1	1	1	1	1	1	1	1	2	2	2	2	2	2								
Voltage @ MPT (STC)		153.9	171.0	188.1	205.2	222.3	239.4	256.5	273.6	153.9	171.0	188.1	205.2	222.3	239.4								
Vmpt @ max amb temp (30C, 86F amb)		126.4	140.4	154.4	168.5	182.5	196.6	210.6	224.6	126.4	140.4	154.4	168.5	182.5	196.6								
Vmpt @ max amb temp (35C, 95F amb)		122.3	135.9	149.5	163.1	176.7	190.3	203.9	217.4	122.3	135.9	149.5	163.1	176.7	190.3								
Vmpt @ max amb temp (40C, 104F amb)		118.3	131.4	144.5	157.7	170.8	184.0	197.1	210.2	118.3	131.4	144.5	157.7	170.8	184.0								
Vmpt @ max amb temp (45C, 113F amb)		114.2	126.9	139.6	152.3	165.0	177.7	190.4	203.0	114.2	126.9	139.6	152.3	165.0	177.7								
Vmpt @ max amb temp (50C, 122F amb)		110.2	122.4	134.6	146.9	159.1	171.4	183.6	195.8	110.2	122.4	134.6	146.9	159.1	171.4								
OCV @ 25 deg C cells		191.7	213.0	234.3	255.6	276.9	298.2	319.5	340.8	191.7	213.0	234.3	255.6	276.9	298.2								
OCV @ coldest temp (-40C, -40F amb)		242.6	269.6	296.5	323.5	350.4	377.4	404.3	431.3	242.6	269.6	296.5	323.5	350.4	377.4								
OCV @ coldest temp (-30C, -22F amb)		234.8	260.9	286.9	313.0	339.1	365.2	391.3	417.4	234.8	260.9	286.9	313.0	339.1	365.2								
OCV @ coldest temp (-20C, -4F amb)		226.9	252.2	277.4	302.6	327.8	353.0	378.2	403.4	226.9	252.2	277.4	302.6	327.8	353.0								
OCV @ coldest temp (-10C, 14F amb)		219.1	243.5	267.8	292.1	316.5	340.8	365.2	389.5	219.1	243.5	267.8	292.1	316.5	340.8								
OCV @ coldest temp (0C, 32F amb)		211.3	234.8	258.2	281.7	305.2	328.7	352.1	375.6	211.3	234.8	258.2	281.7	305.2	328.7								
Power @ MPT (STC)		1035	1150	1265	1380	1495	1610	1725	1840	2070	2300	2530	2760	2990	3220								
PTC AC system power rating		858	954	1049	1144	1240	1335	1438	1534	1726	1938	2150	2361	2499	2685								
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Evergreen		Power @ MPT		110.0 W																			
EC-110-GL		PTC Power Rating		98.4 W																			
Voltage @ MPT (STC)		17 VDC		Temp Coeff of Vmp		0.09 V/degC																	
Current @ MPT (STC)		6.47 ADC		Temp Coeff of Voc		0.087 V/degC																	
Current, short circuit		7.48 ADC		NOCT (nom. cell temp)		44 deg C																	
OCV @ 25 deg C cells		21.3 VDC						111.2 deg F															
Modules total in array		9	10	11	12	13	14	15	16	18	20	22	24	26	28	30							
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14	15							
Strings in Parallel		1	1	1	1	1	1	1	1	2	2	2	2	2	2	2							
Voltage @ MPT (STC)		153.0	170.0	187.0	204.0	221.0	238.0	255.0	272.0	153.0	170.0	187.0	204.0	221.0	238.0	255.0							
Vmpt @ max amb temp (30C, 86F amb)		125.5	139.4	153.3	167.3	181.2	195.2	209.1	223.0	125.5	139.4	153.3	167.3	181.2	195.2	209.1							
Vmpt @ max amb temp (35C, 95F amb)		121.4	134.9	148.4	161.9	175.4	188.9	202.4	215.8	121.4	134.9	148.4	161.9	175.4	188.9	202.4							
Vmpt @ max amb temp (40C, 104F amb)		117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6	117.4	130.4	143.4	156.5	169.5	182.6	195.6							
Vmpt @ max amb temp (45C, 113F amb)		113.3	125.9	138.5	151.1	163.7	176.3	188.9	201.4	113.3	125.9	138.5	151.1	163.7	176.3	188.9							
Vmpt @ max amb temp (50C, 122F amb)		109.3	121.4	133.5	145.7	157.8	170.0	182.1	194.2	109.3	121.4	133.5	145.7	157.8	170.0	182.1							
OCV @ 25 deg C cells		191.7	213.0	234.3	255.6	276.9	298.2	319.5	340.8	191.7	213.0	234.3	255.6	276.9	298.2	319.5							
OCV @ coldest temp (-40C, -40F amb)		242.6	269.6	296.5	323.5	350.4	377.4	404.3	431.3	242.6	269.6	296.5	323.5	350.4	377.4	404.3							
OCV @ coldest temp (-30C, -22F amb)		234.8	260.9	286.9	313.0	339.1	365.2	391.3	417.4	234.8	260.9	286.9	313.0	339.1	365.2	391.3							
OCV @ coldest temp (-20C, -4F amb)		226.9	252.2	277.4	302.6	327.8	353.0	378.2	403.4	226.9	252.2	277.4	302.6	327.8	353.0	378.2							
OCV @ coldest temp (-10C, 14F amb)		219.1	243.5	267.8	292.1	316.5	340.8	365.2	389.5	219.1	243.5	267.8	292.1	316.5	340.8	365.2							
OCV @ coldest temp (0C, 32F amb)		211.3	234.8	258.2	281.7	305.2	328.7	352.1	375.6	211.3	234.8	258.2	281.7	305.2	328.7	352.1							
Power @ MPT (STC)		990	1100	1210	1320	1430	1540	1650	1760	1980	2200	2420	2640	2860	3080	3300							
PTC AC system power rating		819	910	1001	1092	1183	1274	1373	1464	1647	1830	2013	2196	2379	2562	2745							
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Evergreen		Power @ MPT		102.0 W																			
EC-102-GL		PTC Power Rating		91.2 W																			
Voltage @ MPT (STC)		17 VDC		Temp Coeff of Vmp		0.09 V/degC																	
Current @ MPT (STC)		6 ADC		Temp Coeff of Voc		0.087 V/degC																	
Current, short circuit		7.05 ADC		NOCT (nom. cell temp)		44 deg C																	
OCV @ 25 deg C cells		21.3 VDC						111.2 deg F															
Modules total in array		9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32						
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	16						
Strings in Parallel		1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2						
Voltage @ MPT (STC)		153.0	170.0	187.0	204.0	221.0	238.0	255.0	272.0	153.0	170.0	187.0	204.0	221.0	238.0	255.0	272.0						
Vmpt @ max amb temp (30C, 86F amb)		125.5	139.4	153.3	167.3	181.2	195.2	209.1	223.0	125.5	139.4	153.3	167.3	181.2	195.2	209.1	223.0						
Vmpt @ max amb temp (35C, 95F amb)		121.4	134.9	148.4	161.9	175.4	188.9	202.4	215.8	121.4	134.9	148.4	161.9	175.4	188.9	202.4	215.8						
Vmpt @ max amb temp (40C, 104F amb)		117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6	117.4	130.4	143.4	156.5	169.5	182.6	195.6	208.6						
Vmpt @ max amb temp (45C, 113F amb)		113.3	125.9	138.5	151.1	163.7	176.3	188.9	201.4	113.3	125.9	138.5	151.1	163.7	176.3	188.9	201.4						
Vmpt @ max amb temp (50C, 122F amb)		109.3	121.4	133.5	145.7	157.8	170.0	182.1	1														

Module Manufacturer	First Solar FS-277													First Solar FS-277																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Current, short circuit	1.21 ADC													1.21 ADC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
OCV @ 25 deg C cells	93 VDC													93 VDC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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PTC Power Rating	72.1 W													72.1 W																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Temp Coeff of Vmp	-0.233 V/degC													-0.233 V/degC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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NOCT (nom. cell temp)	45 deg C													45 deg C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Modules total in array	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120	123	126	129	132	135	138	141	144	147	150	153	156	159	162	165	168	171	174	177	180	183	186	189	192	195	198	201	204	207	210	213	216	219	222	225	228	231	234	237	240	243	246	249	252	255	258	261	264	267	270	273	276	279	282	285	288	291	294	297	300	303	306	309	312	315	318	321	324	327	330	333	336	339	342	345	348	351	354	357	360	363	366	369	372	375	378	381	384	387	390	393	396	399	402	405	408	411	414	417	420	423	426	429	432	435	438	441	444	447	450	453	456	459	462	465	468	471	474	477	480	483	486	489	492	495	498	501	504	507	510	513	516	519	522	525	528	531	534	537	540	543	546	549	552	555	558	561	564	567	570	573	576	579	582	585	588	591	594	597	600	603	606	609	612	615	618	621	624	627	630	633	636	639	642	645	648	651	654	657	660	663	666	669	672	675	678	681	684	687	690	693	696	699	702	705	708	711	714	717	720	723	726	729	732	735	738	741	744	747	750	753	756	759	762	765	768	771	774	777	780	783	786	789	792	795	798	801	804	807	810	813	816	819	822	825	828	831	834	837	840	843	846	849	852	855	858	861	864	867	870	873	876	879	882	885	888	891	894	897	900	903	906	909	912	915	918	921	924	927	930	933	936	939	942	945	948	951	954	957	960	963	966	969	972	975	978	981	984	987	990	993	996	999	1002	1005	1008	1011	1014	1017	1020	1023	1026	1029	1032	1035	1038	1041	1044	1047	1050	1053	1056	1059	1062	1065	1068	1071	1074	1077	1080	1083	1086	1089	1092	1095	1098	1101	1104	1107	1110	1113	1116	1119	1122	1125	1128	1131	1134	1137	1140	1143	1146	1149	1152	1155	1158	1161	1164	1167	1170	1173	1176	1179	1182	1185	1188	1191	1194	1197	1200	1203	1206	1209	1212	1215	1218	1221	1224	1227	1230	1233	1236	1239	1242	1245	1248	1251	1254	1257	1260	1263	1266	1269	1272	1275	1278	1281	1284	1287	1290	1293	1296	1299	1302	1305	1308	1311	1314	1317	1320	1323	1326	1329	1332	1335	1338	1341	1344	1347	1350	1353	1356	1359	1362	1365	1368	1371	1374	1377	1380	1383	1386	1389	1392	1395	1398	1401	1404	1407	1410	1413	1416	1419	1422	1425	1428	1431	1434	1437	1440	1443	1446	1449	1452	1455	1458	1461	1464	1467	1470	1473	1476	1479	1482	1485	1488	1491	1494	1497	1500	1503	1506	1509	1512	1515	1518	1521	1524	1527	1530	1533	1536	1539	1542	1545	1548	1551	1554	1557	1560	1563	1566	1569	1572	1575	1578	1581	1584	1587	1590	1593	1596	1599	1602	1605	1608	1611	1614	1617	1620	1623	1626	1629	1632	1635	1638	1641	1644	1647	1650	1653	1656	1659	1662	1665	1668	1671	1674	1677	1680	1683	1686	1689	1692	1695	1698	1701	1704	1707	1710	1713	1716	1719	1722	1725	1728	1731	1734	1737	1740	1743	1746	1749	1752	1755	1758	1761	1764	1767	1770	1773	1776	1779	1782	1785	1788	1791	1794	1797	1800	1803	1806	1809	1812	1815	1818	1821	1824	1827	1830	1833	1836	1839	1842	1845	1848	1851	1854	1857	1860	1863	1866	1869	1872	1875	1878	1881	1884	1887	1890	1893	1896	1899	1902	1905	1908	1911	1914	1917	1920	1923	1926	1929	1932	1935	1938	1941	1944	1947	1950	1953	1956	1959	1962	1965	1968	1971	1974	1977	1980	1983	1986	1989	1992	1995	1998	2001	2004	2007	2010	2013	2016	2019	2022	2025	2028	2031	2034	2037	2040	2043	2046	2049	2052	2055	2058	2061	2064	2067	2070	2073	2076	2079	2082	2085	2088	2091	2094	2097	2100	2103	2106	2109	2112	2115	2118	2121	2124	2127	2130	2133	2136	2139	2142	2145	2148	2151	2154	2157	2160	2163	2166	2169	2172	2175	2178	2181	2184	2187	2190	2193	2196	2199	2202	2205	2208	2211	2214	2217	2220	2223	2226	2229	2232	2235	2238	2241	2244	2247	2250	2253	2256	2259	2262	2265	2268	2271	2274	2277	2280	2283	2286	2289	2292	2295	2298	2301	2304	2307	2310	2313	2316	2319	2322	2325	2328	2331	2334	2337	2340	2343	2346	2349	2352	2355	2358	2361	2364	2367	2370	2373	2376	2379	2382	2385	2388	2391	2394	2397	2400	2403	2406	2409	2412	2415	2418	2421	2424	2427	2430	2433	2436	2439	2442	2445	2448	2451	2454	2457	2460	2463	2466	2469	2472	2475	2478	2481	2484	2487	2490	2493	2496	2499	2502	2505	2508	2511	2514	2517	2520	2523	2526	2529	2532	2535	2538	2541	2544	2547	2550	2553	2556	2559	2562	2565	2568	2571	2574	2577	2580	2583	2586	2589	2592	2595	2598	2601	2604	2607	2610	2613	2616	2619	2622	2625	2628	2631	2634	2637	2640	2643	2646	2649	2652	2655	2658	2661	2664	2667	2670	2673	2676	2679	2682	2685	2688	2691	2694	2697	2700	2703	2706	2709	2712	2715	2718	2721	2724	2727	2730	2733	2736	2739	2742	2745	2748	2751	2754	2757	2760	2763	2766	2769	2772	2775	2778	2781	2784	2787	2790	2793	2796	2799	2802	2805	2808	2811	2814	2817	2820	2823	2826	2829	2832	2835	2838	2841	2844	2847	2850	2853	2856	2859	2862	2865	2868	2871	2874	2877	2880	2883	2886	2889	2892	2895	2898	2901	2904	2907	2910	2913	2916	2919	2922	2925	2928	2931	2934	2937	2940	2943	2946	2949	2952	2955	2958	2961	2964	2967	2970	2973	2976	2979	2982	2985	2988	2991	2994	2997	3000	3003	3006	3009	3012	3015	3018	3021	3024	3027	3030	3033	3036	3039	3042	3045	3048	3051	3054	3057	3060	3063	3066	3069	3072	3075	3078	3081	3084	3087	3090	3093	3096	3099	3102	3105	3108	3111	3114	3117	3120	3123	3126	3129	3132	3135	3138	3141	3144	3147	3150	3153	3156	3159	3162	3165	3168	3171	3174	3177	3180	3183	3186	3189	3192	3195	3198	3201	3204	3207	3210	3213	3216	3219	3222	3225	3228	3231	3234	3237	3240	3243	3246	3249	3252	3255	3258	3261	3264	3267	3270	3273	3276	3279	3282	3285	3288	3291	3294	3297	3300	3303	3306	3309	3312	3315	3318	3321	3324	3327	3330	3333	3336	3339	3342	3345	3348	3351	3354	3357	3360	3363	3366	3369	3372	3375	3378	3381	3384	3387	3390	3393	3396	3399	3402	3405	3408	3411	3414	3417	3420	3423	3426	3429	3432	3435	3438	3441	3444	3447	3450	3453	3456	3459	3462	3465	3468	3471	3474	3477	3480	3483	3486	3489	3492	3495	3498	3501	3504	3507	3510	3513	3516	3519	3522	3525	3528	3531	3534	3537	3540	3543	3546	3549	3552	3555	3558	3561	3564	3567	3570	3573	3576	3579	3582	3585	3588	3591	3594	3597	3600	3603	3606	3609	3612	3615	3618	3621	3624	3627	3630	3633	3636	3639	3642	3645	3648	3651	3654	3657	3660	3663	3666	3669	3672	3675	3678	3681	3684	3687	3690	3693	3696	3699	3702	3705	3708	3711	3714	3717	3720	3723	3726	3729	3732	3735	3738	3741	3744	3747	3750	3753	3756	3759	3762	3765	3768	3771	3774	3777	3780	3783	3786	3789	3792	3795	3798	3801	3804	3807	3810	3813	3816	3819	3822	3825	3828	3831	3834	3837	3840	3843	3846	3849	3852	3855	3858	3861	3864	3867	3870	3873	3876	3879	3882	3885	3888	3891	3894	3897	3900	3903	3906	3909	3912	3915	3918	3921	3924	3927	3930	3933	3936	3939	3942	3945	3948	3951	3954	3957	3960	3963	3966	3969	3972	3975	3978	3981	3984	3987	3990	3993	3996	3999	4002	4005	4008	4011	4014	4017	4020	4023	4026	4029	4032	4035	4038	4041	4044	4047	4050	4053	4056	4059	4062	4065	4068	4071	4074	407

Module Manufacturer	GE		Power @ MPT										200.0 W	173.2 W		
Module Model	GEPVp-200-MS		PTC Power Rating										173.2 W	173.2 W		
Voltage @ MPT (STC)	26.3 VDC		Temp Coeff of Vmp										0.12 V/dgC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPT (STC)	7.6 ADC		Temp Coeff of Voc										0.12 V/dgC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current, short circuit	8.1 ADC		NOCT (nom. cell temp)										45 deg C	113 deg F	purple is OK but indicates inverter will limit to 2500W AC continuous output	
OCV @ 25 deg C cells	32.9 VDC															
Modules total in array	6	7	8	9	10	11	12	14	16							
Modules per string	6	7	8	9	10	11	6	7	8							
Strings in Parallel	1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)	157.8	184.1	210.4	236.7	263.0	157.8	184.1	210.4	236.7							
Vmpt @ max amb temp (30C, 86F amb)	132.6	154.7	176.8	198.9	221.0	132.6	154.7	176.8	198.9							
Vmpt @ max amb temp (35C, 95F amb)	129.0	150.5	172.0	193.5	215.0	129.0	150.5	172.0	193.5							
Vmpt @ max amb temp (40C, 104F amb)	125.4	146.3	167.2	188.1	209.0	125.4	146.3	167.2	188.1							
Vmpt @ max amb temp (45C, 113F amb)	121.8	142.1	162.4	182.7	203.0	121.8	142.1	162.4	182.7							
Vmpt @ max amb temp (50C, 122F amb)	118.2	137.9	157.6	177.3	197.0	118.2	137.9	157.6	177.3							
OCV @ 25 deg C cells	197.4	230.3	263.2	296.1	329.0	197.4	230.3	263.2	296.1							
OCV @ coldest temp (-40C, -40F amb)	244.2	284.9	325.6	366.3	407.0	244.2	284.9	325.6	366.3							
OCV @ coldest temp (-30C, -22F amb)	237.0	276.5	316.0	355.5	395.0	237.0	276.5	316.0	355.5							
OCV @ coldest temp (-20C, -4F amb)	229.8	268.1	306.4	344.7	383.0	229.8	268.1	306.4	344.7							
OCV @ coldest temp (-10C, 14F amb)	222.6	259.7	296.8	333.9	371.0	222.6	259.7	296.8	333.9							
OCV @ coldest temp (0C, 32F amb)	215.4	251.3	287.2	323.1	359.0	215.4	251.3	287.2	323.1							
Power @ MPT (STC)	1200	1400	1600	1800	2000	1200	1400	1600	1800	2000						
PTC AC system power rating	961	1121	1282	1442	1602	1933	2255	2577								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	GE/AstroPower		Power @ MPT										200.0 W	178.0 W		
Module Model	GEPVp-200-M		PTC Power Rating										178.0 W	178.0 W		
Voltage @ MPT (STC)	27.1 VDC		Temp Coeff of Vmp										0.12 V/dgC	(Vmp)	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPT (STC)	7.4 ADC		Temp Coeff of Voc										0.12 V/dgC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current, short circuit	7.8 ADC		NOCT (nom. cell temp)										45 deg C	113 deg F	purple is OK but indicates inverter will limit to 2500W AC continuous output	
OCV @ 25 deg C cells	34 VDC															
Modules total in array	6	7	8	9	10	11	12	14	16							
Modules per string	6	7	8	9	10	11	6	7	8							
Strings in Parallel	1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)	162.6	189.7	216.8	243.9	271.0	162.6	189.7	216.8	243.9							
Vmpt @ max amb temp (30C, 86F amb)	137.4	160.3	183.2	206.1	229.0	137.4	160.3	183.2	206.1							
Vmpt @ max amb temp (35C, 95F amb)	133.8	156.1	178.4	200.7	223.0	133.8	156.1	178.4	200.7							
Vmpt @ max amb temp (40C, 104F amb)	130.2	151.9	173.6	195.3	217.0	130.2	151.9	173.6	195.3							
Vmpt @ max amb temp (45C, 113F amb)	126.6	147.7	168.8	189.9	211.0	126.6	147.7	168.8	189.9							
Vmpt @ max amb temp (50C, 122F amb)	123.0	143.5	164.0	184.5	205.0	123.0	143.5	164.0	184.5							
OCV @ 25 deg C cells	204.0	238.0	272.0	306.0	340.0	204.0	238.0	272.0	306.0							
OCV @ coldest temp (-40C, -40F amb)	250.8	292.6	334.4	376.2	418.0	250.8	292.6	334.4	376.2							
OCV @ coldest temp (-30C, -22F amb)	243.6	284.2	324.8	365.4	406.0	243.6	284.2	324.8	365.4							
OCV @ coldest temp (-20C, -4F amb)	236.4	275.8	315.2	354.6	394.0	236.4	275.8	315.2	354.6							
OCV @ coldest temp (-10C, 14F amb)	229.2	267.4	305.6	343.8	382.0	229.2	267.4	305.6	343.8							
OCV @ coldest temp (0C, 32F amb)	222.0	259.0	296.0	333.0	370.0	222.0	259.0	296.0	333.0							
Power @ MPT (STC)	1200	1400	1600	1800	2000	1200	1400	1600	1800	2000						
PTC AC system power rating	991	1156	1321	1486	1651	1992	2324	2656								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	GE/AstroPower		Power @ MPT										174.0 W	154.0 W		
Module Model	GEPV-175-ACA (or-MCB)		PTC Power Rating										174.0 W	154.0 W		
Voltage @ MPT (STC)	25.1 VDC		Temp Coeff of Vmp										0.13 V/dgC	(Vmp)	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPT (STC)	6.9 ADC		Temp Coeff of Voc										0.13 V/dgC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current, short circuit	7.5 ADC		NOCT (nom. cell temp)										45 deg C	113 deg F	purple is OK but indicates inverter will limit to 2500W AC continuous output	
OCV @ 25 deg C cells	32.2 VDC															
Modules total in array	6	7	8	9	10	11	12	14	16	18	20					
Modules per string	6	7	8	9	10	11	6	7	8	9	10					
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2					
Voltage @ MPT (STC)	150.0	175.7	200.8	225.9	251.0	276.1	150.0	175.7	200.8	225.9	251.0					
Vmpt @ max amb temp (30C, 86F amb)	123.3	143.9	164.4	185.0	205.5	226.1	123.3	143.9	164.4	185.0	205.5					
Vmpt @ max amb temp (35C, 95F amb)	119.4	139.3	159.2	179.1	199.0	218.9	119.4	139.3	159.2	179.1	199.0					
Vmpt @ max amb temp (40C, 104F amb)	115.5	134.8	154.0	173.3	192.5	211.8	115.5	134.8	154.0	173.3	192.5					
Vmpt @ max amb temp (45C, 113F amb)	111.6	130.2	148.8	167.4	186.0	204.6	111.6	130.2	148.8	167.4	186.0					
Vmpt @ max amb temp (50C, 122F amb)	107.7	125.7	143.6	161.5	179.5	197.5	107.7	125.7	143.6	161.5	179.5					
OCV @ 25 deg C cells	193.2	225.4	257.6	289.8	322.0	354.2	193.2	225.4	257.6	289.8	322.0					
OCV @ coldest temp (-40C, -40F amb)	243.9	284.6	325.2	365.9	406.5	447.2	243.9	284.6	325.2	365.9	406.5					
OCV @ coldest temp (-30C, -22F amb)	236.1	275.4	314.8	354.2	393.5	432.9	236.1	275.5	314.8	354.2	393.5					
OCV @ coldest temp (-20C, -4F amb)	228.3	266.4	304.4	342.5	380.5	418.6	228.3	266.4	304.4	342.5	380.5					
OCV @ coldest temp (-10C, 14F amb)	220.5	257.0	294.0	330.5	367.0	403.5	220.5	257.3	294.0	330.8	367.5					
OCV @ coldest temp (0C, 32F amb)	212.7	248.2	283.6	319.1	354.5	390.0	212.7	248.2	283.6	319.1	354.5					
Power @ MPT (STC)	1039	1212	1386	1559	1732	1905	2078	2425	2771	3117	3464					
PTC AC system power rating	855	997	1140	1282	1425	1567	1719	2005	2292	2578	2864					
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer	GE		Power @ MPT										170.0 W	146.9 W	
Module Model	GEPVc-170-MS		PTC Power Rating										170.0 W	146.9 W	
Voltage @ MPT (STC)	36.5 VDC		Temp Coeff of Vmp										0.15 V/dgC	(Vmp)	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
Current @ MPT (STC)	4.85 ADC		Temp Coeff of Voc										0.15 V/dgC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).
Current, short circuit	5.1 ADC		NOCT (nom. cell temp)										45 deg C	113 deg F	purple is OK but indicates inverter will limit to 2500W AC continuous output
OCV @ 25 deg C cells	43.9 VDC														
Modules total in array	5	6	7	8	9	10	11	12	14	16	15	18	21		
Modules per string	5	6	7	8	9	10	11	6	7	8	9	5	6	7	
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	3	3	3		
Voltage @ MPT (STC)	182.5	219.0	255.5	292.0	328.5	365.0	396.5	428.0	459.5	491.0	522.5	554.0	585.5		
Vmpt @ max amb temp (30C, 86F amb)	156.3	187.5	218.8	250.0	281.2	312.4	343.6	374.8	406.0	437.2	468.4	500.0	531.6		
Vmpt @ max amb temp (35C, 95F amb)	152.5	183.0	213.5	244.0	274.5	305.0	335.5	366.0	396.5	427.0	457.5	488.0	518.5		
Vmpt @ max amb temp (40C, 104F amb)	148.8	178.5	208.3	238.0	267.8	297.5	327.3	357.0	386.8	416.5	446.3	476.0	505.8		
Vmpt @ max amb temp (45C, 113F amb)	145.0	174.0	203.0	232.0	261.0	290.0	319.0	348.0	377.0	406.0	435.0	464.0	493.0		
Vmpt @ max amb temp (50C, 122F amb)	141.3	169.5	197.8	226.0	254.3	282.5	310.8	339.0	367.3	395.5	423.8	452.0	480.3		
OCV @ 25 deg C cells	219.5	263.4	307.3	351.2	395.1	439.0	482.9	526.8	570.7	614.6	658.5	702.4	746.3		
OCV @ coldest temp (-40C, -40F amb)	266.3	321.9	377.5	433.1	488.7	544.3	599.9	655.5	711.1	766.7	822.3	877.9	933.5		
OCV @ coldest temp (-30C, -22F amb)	260.8	312.9	364.1	415.2	466.4	517.5	568.7	619.8	671.0	722.1	773.3	824.4	875.6		
OCV @ coldest temp (-20C, -4F amb)	253.3	303.9	354.6	405.2	455.8	506.5	557.1	607.8	658.4	709.1	759.7	810.4	861.0		
OCV @ coldest temp (-10C, 14F amb)	245.8	294.9	344.1	393.2	442.3	491.4	540.5	589.6	638.7	687.8	736.9	786.0	835.1		
OCV @ coldest temp (0C, 32F amb)	238.3	285.9	333.6	381.2	428.8	476.4	524.0	571.6	619.2	666.8	714.4	762.0	809.6		
Power @ MPT (STC)	850	1020	1190	1360	1530	1700	2040	2380	2720	3060	3400	3740	4080		
PTC AC system power rating	479	515	551	587	623	659	811	963	1115	1267	1419	1571	1723		
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	GE/AstroPower		Power @ MPT										165.0 W	146.7 W	
Module Model	GEPV-165-ACA (or-MCB)		PTC Power Rating										165.0 W	146.7 W	
Voltage @ MPT (STC)	25 VDC		Temp Coeff of Vmp										0.15 V/dgC	(Vmp)	For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
Current @ MPT (STC)	6.6 ADC		Temp Coeff of Voc										0.13 V/dgC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).
Current, short circuit	7.4 ADC		NOCT (nom. cell temp)										45 deg C	113 deg F	purple is OK but indicates inverter will limit to 2500W AC continuous output
OCV @ 25 deg C cells	32 VDC														

Module Manufacturer	GE/AstroPower			Power @ MPT	110.0 W													For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	GEVP-110-M			PTC Power Rating	97.8 W													orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	16.7 VDC			Temp Coeff of Vmpt	0.08 V/dgC	(Vmpt)													purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)	6.6 ADC			Temp Coeff of Vocv	0.08 V/dgC	(Vocv)														
Current, short circuit	7.4 ADC			NOCT (nom. cell temp)	45 deg C		113 deg F													
OCV @ 25 deg C cells	21.2 VDC																			
Modules total in array	9	10	11	12	13	14	15	16	17	18	20	22	24	26	28	30				
Modules per string	9	10	11	12	13	14	15	16	17	9	10	11	12	13	14	15				
Strings in Parallel	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2				
Voltage @ MPT (STC)	150.3	167.0	183.7	200.4	217.1	233.8	250.5	267.2	283.9	150.3	167.0	183.7	200.4	217.1	233.8	250.5				
Vmpt @ max amb temp (30C, 86F amb)	125.1	139.0	152.9	166.8	180.7	194.6	208.5	222.4	236.3	125.1	139.0	152.9	166.8	180.7	194.6	208.5				
Vmpt @ max amb temp (35C, 95F amb)	121.5	135.0	148.5	162.0	175.5	189.0	202.5	216.0	229.5	121.5	135.0	148.5	162.0	175.5	189.0	202.5				
Vmpt @ max amb temp (40C, 104F amb)	117.9	131.0	144.1	157.2	170.3	183.4	196.5	209.6	222.7	117.9	131.0	144.1	157.2	170.3	183.4	196.5				
Vmpt @ max amb temp (45C, 113F amb)	114.3	127.0	139.7	152.4	165.1	177.8	190.5	203.2	215.9	114.3	127.0	139.7	152.4	165.1	177.8	190.5				
Vmpt @ max amb temp (50C, 122F amb)	110.7	123.0	135.3	147.6	159.9	172.2	184.5	196.8	209.1	110.7	123.0	135.3	147.6	159.9	172.2	184.5				
Vmpt @ max amb temp (50C, 122F amb)	109.8	122.0	233.2	254.4	275.6	296.8	318.0	339.2	360.4	109.8	212.0	233.2	254.4	275.6	296.8	318.0				
OCV @ 25 deg C cells	237.6	264.0	290.4	316.8	343.2	369.6	396.0	422.4	448.8	237.6	264.0	290.4	316.8	343.2	369.6	396.0				
OCV @ coldest temp (-40C, -40F amb)	230.4	256.0	281.6	307.2	332.8	358.4	384.0	409.6	435.2	230.4	256.0	281.6	307.2	332.8	358.4	384.0				
OCV @ coldest temp (-20C, -4F amb)	223.2	248.0	272.8	297.6	322.4	347.2	372.0	396.8	421.6	223.2	248.0	272.8	297.6	322.4	347.2	372.0				
OCV @ coldest temp (-10C, 14F amb)	216.0	240.0	264.0	288.0	312.0	336.0	360.0	384.0	408.0	216.0	240.0	264.0	288.0	312.0	336.0	360.0				
OCV @ coldest temp (0C, 32F amb)	209.8	232.0	255.2	278.4	301.6	324.8	348.0	371.2	394.4	209.8	232.0	255.2	278.4	301.6	324.8	348.0				
Power @ MPT (STC)	990	1100	1210	1320	1430	1540	1650	1760	1870	1980	2200	2420	2640	2860	3080	3300				
PTC AC system power rating	814	905	995	1086	1176	1267	1358	1449	1540	1631	1819	2007	2195	2383	2571	2759				
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

Module Manufacturer	Global Solar			Power @ MPT	120.0 W													For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	33120-O 24V version			PTC Power Rating	0.0 W													orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	37 VDC			Temp Coeff of Vmpt	0.185 V/dgC	(Vmpt)													purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)	3.24 ADC			Temp Coeff of Vocv	0.26 V/dgC	(Vocv)														
Current, short circuit	4.1 ADC			NOCT (nom. cell temp)	46 deg C		114.8 deg F													
OCV @ 25 deg C cells	52 VDC																			
Modules total in array	5	6	10	12	15	18	20	24	25											
Modules per string	5	6	6	6	5	5	6	5	5											
Strings in Parallel	1	1	2	2	3	3	4	4	5											
Voltage @ MPT (STC)	185.0	222.0	185.0	222.0	185.0	222.0	185.0	222.0	185.0											
Vmpt @ max amb temp (30C, 86F amb)	151.7	182.0	151.7	182.0	151.7	182.0	151.7	182.0	151.7											
Vmpt @ max amb temp (35C, 95F amb)	147.1	176.5	147.1	176.5	147.1	176.5	147.1	176.5	147.1											
Vmpt @ max amb temp (40C, 104F amb)	142.5	170.9	142.5	170.9	142.5	170.9	142.5	170.9	142.5											
Vmpt @ max amb temp (45C, 113F amb)	137.8	165.4	137.8	165.4	137.8	165.4	137.8	165.4	137.8											
Vmpt @ max amb temp (50C, 122F amb)	133.2	159.8	133.2	159.8	133.2	159.8	133.2	159.8	133.2											
Vmpt @ max amb temp (50C, 122F amb)	132.2	158.8	132.2	158.8	132.2	158.8	132.2	158.8	132.2											
OCV @ 25 deg C cells	260.0	312.0	260.0	312.0	260.0	312.0	260.0	312.0	260.0											
OCV @ coldest temp (-40C, -40F amb)	344.5	413.4	344.5	413.4	344.5	413.4	344.5	413.4	344.5											
OCV @ coldest temp (-30C, -22F amb)	331.5	397.8	331.5	397.8	331.5	397.8	331.5	397.8	331.5											
OCV @ coldest temp (-20C, -4F amb)	318.5	382.2	318.5	382.2	318.5	382.2	318.5	382.2	318.5											
OCV @ coldest temp (-10C, 14F amb)	305.5	366.6	305.5	366.6	305.5	366.6	305.5	366.6	305.5											
OCV @ coldest temp (0C, 32F amb)	292.5	351.0	292.5	351.0	292.5	351.0	292.5	351.0	292.5											
Power @ MPT (STC)	600	720	1200	1440	1800	2160	2400	2880	3000											
PTC AC system power rating	0	0	0	0	0	0	0	0	0											
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500											

Module Manufacturer	Eco Solar			Power @ MPT	155.0 W													For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	ES-155-RL			PTC Power Rating	137.0 W													orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	24 VDC			Temp Coeff of Vmpt	0.118 V/dgC	(Vmpt)													purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)	6.46 ADC			Temp Coeff of Vocv	0.118 V/dgC	(Vocv)														
Current, short circuit	7.52 ADC			NOCT (nom. cell temp)	47 deg C		116.6 deg F													
OCV @ 25 deg C cells	30 VDC																			
Modules total in array	7	8	9	10	11	12	14	16	18	20	22									
Modules per string	7	8	9	10	11	12	7	8	9	10	11									
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2									
Voltage @ MPT (STC)	168.0	192.0	216.0	240.0	264.0	288.0	168.0	192.0	216.0	240.0	264.0									
Vmpt @ max amb temp (30C, 86F amb)	137.4	157.1	176.7	196.3	216.0	235.6	137.4	157.1	176.7	196.3	216.0									
Vmpt @ max amb temp (35C, 95F amb)	133.3	152.4	171.4	190.4	209.5	228.5	133.3	152.4	171.4	190.4	209.5									
Vmpt @ max amb temp (40C, 104F amb)	129.2	147.6	166.1	184.5	203.0	221.4	129.2	147.6	166.1	184.5	203.0									
Vmpt @ max amb temp (45C, 113F amb)	125.0	142.9	160.8	178.6	196.5	214.4	125.0	142.9	160.8	178.6	196.5									
Vmpt @ max amb temp (50C, 122F amb)	120.8	138.2	155.5	172.7	190.0	207.3	120.8	138.2	155.5	172.7	190.0									
Vmpt @ max amb temp (50C, 122F amb)	119.4	136.1	152.9	169.5	186.2	202.9	119.4	136.1	152.9	169.5	186.2									
OCV @ 25 deg C cells	210.0	240.0	270.0	300.0	330.0	360.0	210.0	240.0	270.0	300.0	330.0									
OCV @ coldest temp (-40C, -40F amb)	263.7	301.4	339.0	376.7	414.4	452.0	263.7	301.4	339.0	376.7	414.4									
OCV @ coldest temp (-30C, -22F amb)	255.4	291.9	328.4	364.9	401.4	437.9	255.4	291.9	328.4	364.9	401.4									
OCV @ coldest temp (-20C, -4F amb)	247.2	282.5	317.8	353.1	388.4	423.7	247.2	282.5	317.8	353.1	388.4									
OCV @ coldest temp (-10C, 14F amb)	239.0	274.2	309.5	344.8	380.1	415.4	239.0	274.2	309.5	344.8	380.1									
OCV @ coldest temp (0C, 32F amb)	230.7	263.6	296.6	329.5	362.5	395.4	230.7	263.6	296.6	329.5	362.5									
Power @ MPT (STC)	1085	1240	1395	1550	1705	1860	2170	2480	2790	3100	3410									
PTC AC system power rating	887	1014	1141	1267	1394	1521	1784	2039	2293	2548	2803									
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500									

Module Manufacturer	Isofon			Power @ MPT	165.0 W													For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	I-165			PTC Power Rating	148.1 W													orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	17.4 VDC			Temp Coeff of Vmpt	0.093 V/dgC	(Vmpt)													purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)	9.48 ADC			Temp Coeff of Vocv	0.078 V/dgC	(Vocv)														
Current, short circuit	10.14 ADC			NOCT (nom. cell temp)	47 deg C		116.6 deg F													
OCV @ 25 deg C cells	21.6 VDC																			
Modules total in array	9	10	11	12	13	14	15	16	18	20										
Modules per string	9	11	12	13	14	15	16	19	9	10										
Strings in Parallel	1	1	1	1	1	1	1	1	2	2										
Voltage @ MPT (STC)	156.6	174.0	191.4	208.8	226.2	243.6	261.0	278.4	156.6	174.0										
Vmpt @ max amb temp (30C, 86F amb)	135.6	150.7	165.8	180.8	195.9	211.0	226.0	241.1	135.6	150.7										
Vmpt @ max amb temp (35C, 95F amb)	132.8	147.5	162.3	177.0	191.8	206.6	221.3	236.1	132.8	147.5										
Vmpt @ max amb temp (40C, 104F amb)	130.0	144.4	158.8	173.3	187.7	202.1	216.6	231.0	130.0	144.4										
Vmpt @ max amb temp (45C, 113F amb)	127.1	141.2	155.4	169.5	183.6	197.7	211.9	226.0	127.1	141.2										
Vmpt @ max amb temp (50C, 122F amb)	124.3	138.1	151.9	165.7	179.5	193.3	207.1	220.9	124.3	138.1										
Vmpt @ max amb temp (50C, 122F amb)	119.4	136.0	152.7	169.2	185.8	202.4	219.0	235.6	119.4	136.0										
OCV @ 25 deg C cells	194.4	216.0	237.6	259.2	280.8	302.4	324.0	345.6	194.4	216.0										
OCV @ coldest temp (-40C, -40F amb)	240.0	266.7	293.4	320.0	346.7	373.4	400.1	426.7	240.0	266.7										
OCV @ coldest temp (-30C, -22F amb)	233.0	259.9	286.8	313.7	340.6	367.5	394.4	421.3	233.0	259.9										
OCV @ coldest temp (-20C, -4F amb)	226.0	251.1	276.2	301.3	326.4	351.5	376.7	401.8	226.0	251.1										
OCV @ coldest temp (-10C, 14F amb)	219.0	243.3	267.6	292.0	316.3	340.6	365.0	389.3	219.0	243.3										
OCV @ coldest temp (0C, 32F amb)	212.0	235.5	259.1	282.6	306.2	329.7	353.3	376.8	212.0	235.5										
Power @ MPT (STC)	1485	1650	1815	1980	2145	2310	2475	2640	2970	3300										
PTC AC system power rating	1233	1370	1507	1644	1781	1918	2066	2204	2479	2755										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	Isofon			Power @ MPT	150.0 W													For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
Module Model	I-150			PTC Power Rating	134.3 W													orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).
Voltage @ MPT (STC)	16.5 VDC			Temp Coeff of Vmpt	0.125													

Module Manufacturer	Kycocera										190.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	KC190GT										167.7 W		
Voltage @ MPT (STC)	26.1 VDC										PTC Power Rating		
Current @ MPT (STC)	7.28 ADC										Temp Coeff of Vmpt		
Current, short circuit	8.08 ADC										Temp Coeff of Vocv		
OCV @ 25 deg C cells	32.5 VDC										NOCT (nom. cell temp)		
											47 deg C		
Modules total in array	6	7	8	9	10	11	12	14	16	18			
Modules per string	6	7	8	9	10	11	6	7	8	9			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	156.6	182.7	208.8	234.9	261.0	287.1	156.6	182.7	208.8	234.9			
Vmpt @ max amb temp (30C, 86F amb)	129.3	150.8	172.4	193.9	215.5	237.0	129.3	150.8	172.4	193.9			
Vmpt @ max amb temp (35C, 95F amb)	125.6	146.5	167.5	188.4	209.3	230.3	125.6	146.5	167.5	188.4			
Vmpt @ max amb temp (40C, 104F amb)	121.9	142.2	162.6	182.9	203.2	223.5	121.9	142.2	162.6	182.9			
Vmpt @ max amb temp (45C, 113F amb)	118.2	137.9	157.6	177.3	197.0	216.7	118.2	137.9	157.6	177.3			
Vmpt @ max amb temp (50C, 122F amb)	114.5	133.6	152.7	171.8	190.9	210.0	114.5	133.6	152.7	171.8			
OCV @ 25 deg C cells	195.0	227.5	260.0	292.5	325.0	357.5	195.0	227.5	260.0	292.5			
OCV @ coldest temp (-40C, -40F amb)	243.0	283.5	324.0	364.5	405.0	445.4	243.0	283.5	324.0	364.5			
OCV @ coldest temp (-30C, -22F amb)	235.6	274.9	314.1	353.4	392.7	431.9	235.6	274.9	314.1	353.4			
OCV @ coldest temp (-20C, -4F amb)	228.2	266.2	304.3	342.3	380.4	418.4	228.2	266.2	304.3	342.3			
OCV @ coldest temp (-10C, 14F amb)	220.8	257.6	294.4	331.2	368.1	404.9	220.8	257.6	294.4	331.2			
OCV @ coldest temp (0C, 32F amb)	213.5	249.0	284.6	320.2	355.8	391.3	213.5	249.0	284.6	320.2			
Power @ MPT (STC)	1140	1330	1520	1710	1900	2090	2280	2560	3040	3420			
PTC AC system power rating	931	1086	1241	1396	1551	1706	1872	2183	2495	2807			
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	Kycocera										167.4 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	KC187G										187.0 W		
Voltage @ MPT (STC)	26.1 VDC										PTC Power Rating		
Current @ MPT (STC)	7.17 ADC										Temp Coeff of Vmpt		
Current, short circuit	7.96 ADC										Temp Coeff of Vocv		
OCV @ 25 deg C cells	32.5 VDC										NOCT (nom. cell temp)		
											47 deg C		
Modules total in array	6	7	8	9	10	11	12	14	16	18			
Modules per string	6	7	8	9	10	11	6	7	8	9			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	156.6	182.7	208.8	234.9	261.0	287.1	156.6	182.7	208.8	234.9			
Vmpt @ max amb temp (30C, 86F amb)	129.3	150.8	172.4	193.9	215.5	237.0	129.3	150.8	172.4	193.9			
Vmpt @ max amb temp (35C, 95F amb)	125.6	146.5	167.5	188.4	209.3	230.3	125.6	146.5	167.5	188.4			
Vmpt @ max amb temp (40C, 104F amb)	121.9	142.2	162.6	182.9	203.2	223.5	121.9	142.2	162.6	182.9			
Vmpt @ max amb temp (45C, 113F amb)	118.2	137.9	157.6	177.3	197.0	216.7	118.2	137.9	157.6	177.3			
Vmpt @ max amb temp (50C, 122F amb)	114.5	133.6	152.7	171.8	190.9	210.0	114.5	133.6	152.7	171.8			
OCV @ 25 deg C cells	195.0	227.5	260.0	292.5	325.0	357.5	195.0	227.5	260.0	292.5			
OCV @ coldest temp (-40C, -40F amb)	243.0	283.5	324.0	364.5	405.0	445.4	243.0	283.5	324.0	364.5			
OCV @ coldest temp (-30C, -22F amb)	235.6	274.9	314.1	353.4	392.7	431.9	235.6	274.9	314.1	353.4			
OCV @ coldest temp (-20C, -4F amb)	228.2	266.2	304.3	342.3	380.4	418.4	228.2	266.2	304.3	342.3			
OCV @ coldest temp (-10C, 14F amb)	220.8	257.6	294.4	331.2	368.1	404.9	220.8	257.6	294.4	331.2			
OCV @ coldest temp (0C, 32F amb)	213.5	249.0	284.6	320.2	355.8	391.3	213.5	249.0	284.6	320.2			
Power @ MPT (STC)	1122	1309	1496	1683	1870	2057	2244	2618	2992	3366			
PTC AC system power rating	929	1094	1259	1424	1589	1754	1919	2184	2499	2814			
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	Kycocera										180.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	KD1800X-LP										160.0 W		
Voltage @ MPT (STC)	23.6 VDC										PTC Power Rating		
Current @ MPT (STC)	7.63 ADC										Temp Coeff of Vmpt		
Current, short circuit	8.36 ADC										Temp Coeff of Vocv		
OCV @ 25 deg C cells	29.5 VDC										NOCT (nom. cell temp)		
											47 deg C		
Modules total in array	7	8	9	10	11	12	14	16	18	20			
Modules per string	7	8	9	10	11	12	7	8	9	10			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	165.2	188.8	212.4	236.0	259.6	283.2	165.2	188.8	212.4	236.0			
Vmpt @ max amb temp (30C, 86F amb)	137.0	156.5	176.1	195.7	215.2	234.8	137.0	156.5	176.1	195.7			
Vmpt @ max amb temp (35C, 95F amb)	133.2	152.2	171.2	190.2	209.2	228.3	133.2	152.2	171.2	190.2			
Vmpt @ max amb temp (40C, 104F amb)	129.3	147.8	166.3	184.8	203.2	221.7	129.3	147.8	166.3	184.8			
Vmpt @ max amb temp (45C, 113F amb)	125.5	143.5	161.4	179.3	197.3	215.2	125.5	143.5	161.4	179.3			
Vmpt @ max amb temp (50C, 122F amb)	121.7	139.1	156.5	173.9	191.3	208.6	121.7	139.1	156.5	173.9			
OCV @ 25 deg C cells	206.5	236.0	265.5	295.0	324.5	354.0	206.5	236.0	265.5	295.0			
OCV @ coldest temp (-40C, -40F amb)	256.1	292.7	329.3	365.9	402.4	439.0	256.1	292.7	329.3	365.9			
OCV @ coldest temp (-30C, -22F amb)	248.5	284.0	319.5	355.0	390.4	425.9	248.5	284.0	319.5	355.0			
OCV @ coldest temp (-20C, -4F amb)	240.8	275.2	309.6	344.1	378.5	412.9	240.8	275.2	309.6	344.1			
OCV @ coldest temp (-10C, 14F amb)	233.2	266.3	299.8	333.2	366.7	399.8	233.2	266.3	299.8	333.2			
OCV @ coldest temp (0C, 32F amb)	225.6	257.8	290.0	322.3	354.5	386.7	225.6	257.8	290.0	322.3			
Power @ MPT	1260	1440	1620	1800	1980	2160	2520	2880	3240	3600			
PTC AC system power rating	1036	1184	1332	1480	1628	1776	2083	2381	2678	2976			
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	Kycocera										175.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	KC175GT										154.9 W		
Voltage @ MPT (STC)	23.6 VDC										PTC Power Rating		
Current @ MPT (STC)	7.42 ADC										Temp Coeff of Vmpt		
Current, short circuit	8.09 ADC										Temp Coeff of Vocv		
OCV @ 25 deg C cells	29.2 VDC										NOCT (nom. cell temp)		
											47 deg C		
Modules total in array	7	8	9	10	11	12	14	16	18	20			
Modules per string	7	8	9	10	11	12	7	8	9	10			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	165.2	188.8	212.4	236.0	259.6	283.2	165.2	188.8	212.4	236.0			
Vmpt @ max amb temp (30C, 86F amb)	137.0	156.5	176.1	195.7	215.2	234.8	137.0	156.5	176.1	195.7			
Vmpt @ max amb temp (35C, 95F amb)	133.2	152.2	171.2	190.2	209.2	228.3	133.2	152.2	171.2	190.2			
Vmpt @ max amb temp (40C, 104F amb)	129.3	147.8	166.3	184.8	203.2	221.7	129.3	147.8	166.3	184.8			
Vmpt @ max amb temp (45C, 113F amb)	125.5	143.5	161.4	179.3	197.3	215.2	125.5	143.5	161.4	179.3			
Vmpt @ max amb temp (50C, 122F amb)	121.7	139.1	156.5	173.9	191.3	208.6	121.7	139.1	156.5	173.9			
OCV @ 25 deg C cells	204.4	233.6	262.8	292.0	321.2	350.4	204.4	233.6	262.8	292.0			
OCV @ coldest temp (-40C, -40F amb)	254.0	290.3	326.6	362.9	399.1	435.4	254.0	290.3	326.6	362.9			
OCV @ coldest temp (-30C, -22F amb)	246.4	281.6	316.8	352.0	387.1	422.3	246.4	281.6	316.8	352.0			
OCV @ coldest temp (-20C, -4F amb)	238.7	272.8	306.9	341.1	375.2	409.3	238.7	272.8	306.9	341.1			
OCV @ coldest temp (-10C, 14F amb)	231.1	264.1	297.1	330.2	363.2	396.2	231.1	264.1	297.1	330.2			
OCV @ coldest temp (0C, 32F amb)	223.5	255.4	287.3	319.3	351.2	383.1	223.5	255.4	287.3	319.3			
Power @ MPT (STC)	1225	1400	1575	1750	1925	2100	2450	2800	3150	3500			
PTC AC system power rating	1003	1146	1290	1433	1576	1719	2017	2305	2593	2881			
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	Kycocera										170.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	KC170GT										150.0 W		
Voltage @ MPT (STC)	23.4 VDC										PTC Power Rating		
Current @ MPT (STC)	7.27 ADC										Temp Coeff of Vmpt		
Current, short circuit	8.03 ADC										Temp Coeff of Vocv		
OCV @ 25 deg C cells	29 VDC										NOCT (nom. cell temp)		
											47 deg C		
Modules total in array	7	8	9	10	11	12	14	16	18	20			
Modules per string	7	8	9	10	11	12	7	8	9	10			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	163.8	187.2	210.6	234.0	257.4	280.8	163.8	187.2	210.6	234.0			
Vmpt @ max amb temp (30C, 86F amb)	135.6	154.9	174.3	193.7	213.0	232.4	135.6	154.9	174.3	193.7			
Vmpt @ max amb temp (35C, 95F amb)	131.8	150.6	169.4	188.2	207.0	225.9	131.8	150.6	169.4	188.2			
Vmpt @ max amb temp (40C, 104F amb)	127.9	146.2	164.5	182.8	201.0	219.3	127.9	146.2	164.5	182.8			
Vmpt @ max amb temp (45C, 113F amb)	124.1	141.9	159.6	177.3	195.1	212.8	124.1	141.9	159.6	177.3			
Vmpt @ max amb temp (50C, 122F amb)	120.3	137.5											

Module Manufacturer		Kycocera		Power @ MPT		167.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Module Model		KC1167G		PTC Power Rating		149.6 W													
Voltage @ MPT (STC)		23.2 VDC		Temp Coeff of Vmpt		0.112 V/degC		(Vmpt)											
Current @ MPT (STC)		7.2 ADC		Temp Coeff of Vocv		0.112 V/degC		(Vocv)											
Current, short circuit		8 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F											
OCV @ 25 deg C cells		28.9 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20									
Modules per string	7	8	9	10	11	12	7	8	9	10									
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	162.4	185.6	208.8	232.0	255.2	278.4	162.4	185.6	208.8	232.0									
Vmpt @ max amb temp (30C, 86F amb)	133.4	152.4	171.5	190.6	209.8	228.7	133.4	152.4	171.5	190.6									
Vmpt @ max amb temp (35C, 95F amb)	129.5	148.0	166.5	185.0	203.5	222.0	129.5	148.0	166.5	185.0									
Vmpt @ max amb temp (40C, 104F amb)	125.6	143.5	161.4	179.4	197.3	215.2	125.6	143.5	161.4	179.4									
Vmpt @ max amb temp (45C, 113F amb)	121.7	139.0	156.4	173.8	191.1	208.5	121.6	139.0	156.4	173.8									
Vmpt @ max amb temp (50C, 122F amb)	117.8	134.5	151.3	168.2	185.0	201.9	117.7	134.5	151.3	168.2									
OCV @ 25 deg C cells	202.3	231.2	260.1	289.0	317.9	346.8	202.3	231.2	260.1	289.0									
OCV @ coldest temp (-40C, -40F amb)	253.3	289.4	325.6	361.8	398.0	434.2	253.3	289.4	325.6	361.8									
OCV @ coldest temp (-30C, -22F amb)	245.4	280.5	315.5	350.6	385.7	420.7	245.4	280.5	315.5	350.6									
OCV @ coldest temp (-20C, -4F amb)	237.6	271.5	305.5	339.4	373.3	407.3	237.6	271.5	305.5	339.4									
OCV @ coldest temp (-10C, 14F amb)	229.7	262.6	295.4	328.2	361.0	393.8	229.7	262.6	295.4	328.2									
OCV @ coldest temp (0C, 32F amb)	221.9	253.6	285.3	317.0	348.7	380.4	221.9	253.6	285.3	317.0									
Power @ MPT (STC)	1169	1336	1503	1670	1837	2004	2338	2672	3006	3340									
PTC AC system power rating	969	1107	1245	1384	1522	1661	1948	2226	2504	2783									
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500									

Module Manufacturer		Kycocera		Power @ MPT		158.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Module Model		KC1158G		PTC Power Rating		139.7 W													
Voltage @ MPT (STC)		23.2 VDC		Temp Coeff of Vmpt		0.111 V/degC		(Vmpt)											
Current @ MPT (STC)		6.82 ADC		Temp Coeff of Vocv		0.111 V/degC		(Vocv)											
Current, short circuit		7.58 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F											
OCV @ 25 deg C cells		28.9 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20	22								
Modules per string	7	8	9	10	11	12	7	8	9	10	11								
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	162.4	185.6	208.8	232.0	255.2	278.4	162.4	185.6	208.8	232.0	255.2								
Vmpt @ max amb temp (30C, 86F amb)	133.9	153.0	172.2	191.3	210.4	229.6	133.9	153.0	172.2	191.3	210.4								
Vmpt @ max amb temp (35C, 95F amb)	130.1	148.6	167.2	185.8	204.4	223.0	130.1	148.6	167.2	185.8	204.4								
Vmpt @ max amb temp (40C, 104F amb)	126.3	144.2	162.3	180.3	198.3	216.4	126.2	144.2	162.3	180.3	198.3								
Vmpt @ max amb temp (45C, 113F amb)	122.4	139.8	157.3	174.8	192.3	209.8	122.4	139.8	157.3	174.8	192.3								
Vmpt @ max amb temp (50C, 122F amb)	118.5	135.4	152.4	169.3	186.2	203.2	118.5	135.4	152.4	169.3	186.2								
OCV @ 25 deg C cells	202.3	231.2	260.1	289.0	317.9	346.8	202.3	231.2	260.1	289.0	317.9								
OCV @ coldest temp (-40C, -40F amb)	252.4	288.4	324.5	360.5	396.6	432.6	252.4	288.4	324.5	360.5	396.6								
OCV @ coldest temp (-30C, -22F amb)	244.7	279.6	314.6	349.5	384.5	419.4	244.7	279.6	314.6	349.5	384.5								
OCV @ coldest temp (-20C, -4F amb)	237.0	270.8	304.7	338.5	372.4	406.2	237.0	270.8	304.7	338.5	372.4								
OCV @ coldest temp (-10C, 14F amb)	229.3	262.0	294.8	327.5	360.3	393.0	229.3	262.0	294.8	327.5	360.3								
OCV @ coldest temp (0C, 32F amb)	221.6	253.2	284.9	316.5	348.2	379.8	221.6	253.2	284.9	316.5	348.2								
Power @ MPT (STC)	1106	1264	1422	1580	1738	1896	2212	2528	2844	3160	3476								
PTC AC system power rating	905	1034	1163	1292	1421	1551	1819	2079	2339	2599	2859								
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer		Kycocera		Power @ MPT		135.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Module Model		KD1350X-LP		PTC Power Rating		118.4 W													
Voltage @ MPT (STC)		17.7 VDC		Temp Coeff of Vmpt		0.082 V/degC		(Vmpt)											
Current @ MPT (STC)		7.63 ADC		Temp Coeff of Vocv		0.082 V/degC		(Vocv)											
Current, short circuit		8.37 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F											
OCV @ 25 deg C cells		22.1 VDC																	
Modules total in array	9	10	11	12	13	14	15	16	6	20	22	24	26						
Modules per string	9	10	11	12	13	14	15	16	2	10	11	12	13						
Strings in Parallel	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	159.3	177.0	194.7	212.4	230.1	247.8	265.5	283.2	35.4	177.0	194.7	212.4	230.1						
Vmpt @ max amb temp (30C, 86F amb)	132.0	146.7	161.3	176.0	190.7	205.3	220.0	234.7	29.3	146.7	161.3	176.0	190.7						
Vmpt @ max amb temp (35C, 95F amb)	128.3	142.6	156.8	171.1	185.3	199.6	213.8	228.1	28.5	142.6	156.8	171.1	185.3						
Vmpt @ max amb temp (40C, 104F amb)	124.6	138.5	152.3	166.2	180.0	193.8	207.7	221.5	27.7	138.5	152.3	166.2	180.0						
Vmpt @ max amb temp (45C, 113F amb)	120.9	134.4	147.8	161.2	174.7	188.1	201.5	215.0	26.9	134.4	147.8	161.2	174.7						
Vmpt @ max amb temp (50C, 122F amb)	117.2	130.3	143.3	156.3	169.3	182.4	195.4	208.4	26.1	130.3	143.3	156.3	169.3						
OCV @ 25 deg C cells	198.9	221.0	243.1	265.2	287.3	309.4	331.5	353.6	44.2	221.0	243.1	265.2	287.3						
OCV @ coldest temp (-40C, -40F amb)	246.9	274.3	301.7	329.2	356.6	384.0	411.5	438.9	54.9	274.3	301.7	329.2	356.6						
OCV @ coldest temp (-30C, -22F amb)	239.5	266.1	292.7	319.3	345.9	372.5	399.2	425.8	53.2	266.1	292.7	319.3	345.9						
OCV @ coldest temp (-20C, -4F amb)	232.1	257.9	283.7	309.5	335.3	361.1	386.9	412.6	51.6	257.9	283.7	309.5	335.3						
OCV @ coldest temp (-10C, 14F amb)	224.7	249.7	274.7	299.6	324.5	349.4	374.3	399.5	49.9	249.7	274.7	299.6	324.5						
OCV @ coldest temp (0C, 32F amb)	217.4	241.5	265.7	289.8	314.0	338.1	362.3	386.4	48.3	241.5	265.7	289.8	314.0						
Power @ MPT (STC)	1215	1350	1485	1620	1755	1890	2025	2160	810	2700	2970	3240	3510						
PTC AC system power rating	994	1104	1215	1325	1436	1546	1666	1777	666	2221	2443	2665	2887						
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		Kycocera		Power @ MPT		130.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output									
Module Model		KC130GT & KC130TM		PTC Power Rating		115.2 W													
Voltage @ MPT (STC)		17.6 VDC		Temp Coeff of Vmpt		0.082 V/degC		(Vmpt)											
Current @ MPT (STC)		7.39 ADC		Temp Coeff of Vocv		0.082 V/degC		(Vocv)											
Current, short circuit		8.02 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F											
OCV @ 25 deg C cells		21.9 VDC																	
Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26						
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13						
Strings in Parallel	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2		
Voltage @ MPT (STC)	158.4	176.0	193.6	211.2	228.8	246.4	264.0	281.6	158.4	176.0	193.6	211.2	228.8						
Vmpt @ max amb temp (30C, 86F amb)	131.1	145.7	160.2	174.8	189.4	203.9	218.5												

Module Manufacturer		Kycocera		Power @ MPT		120.0 W															
Module Model		KC120-1		PTC Power Rating		88.0 W		120.0 W													
Voltage @ MPT (STC)		16.7 VDC		Temp Coeff of Vmp		0.081 V/degC		(Vmp)													
Current @ MPT (STC)		7.1 ADC		Temp Coeff of Voc		0.081 V/degC		(Voc)													
Current, short circuit		7.45 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F													
OCV @ 25 deg C cells		21.5 VDC																			
Modules total in array		9	10	11	12	13	14	15	16	18	20	22	24	26	28						
Modules per string		9	10	11	12	13	14	15	16	9	10	11	12	13	14						
Strings in Parallel		1	1	1	1	1	1	1	1	2	2	2	2	2	2						
Voltage @ MPT (STC)		150.3	167.0	183.7	200.4	217.1	233.8	250.5	267.2	150.3	167.0	183.7	200.4	217.1	233.8						
Vmpt @ max amb temp (30C, 86F amb)		123.3	137.0	150.7	164.4	178.1	191.8	205.5	219.2	123.3	137.0	150.7	164.4	178.1	191.8						
Vmpt @ max amb temp (35C, 95F amb)		119.7	133.0	146.3	159.6	172.9	186.2	199.5	212.8	119.7	133.0	146.3	159.6	172.9	186.2						
Vmpt @ max amb temp (40C, 104F amb)		116.0	128.9	141.8	154.7	167.6	180.5	193.4	206.3	116.0	128.9	141.8	154.7	167.6	180.5						
Vmpt @ max amb temp (45C, 113F amb)		112.4	124.9	137.4	149.9	162.3	174.8	187.3	199.8	112.4	124.9	137.4	149.9	162.3	174.8						
Vmpt @ max amb temp (50C, 122F amb)		108.7	120.8	132.9	145.0	157.1	169.2	181.3	193.4	108.7	120.8	132.9	145.0	157.1	169.2						
OCV @ 25 deg C cells		193.5	215.0	236.5	258.0	279.5	301.0	322.5	344.0	193.5	215.0	236.5	258.0	279.5	301.0						
OCV @ coldest temp (-40C, -40F amb)		240.9	267.7	294.4	321.2	347.9	374.7	401.5	428.2	240.9	267.7	294.4	321.2	347.9	374.7						
OCV @ coldest temp (-30C, -22F amb)		233.6	259.6	285.5	311.5	337.4	363.4	389.3	415.3	233.6	259.6	285.5	311.5	337.4	363.4						
OCV @ coldest temp (-20C, -4F amb)		226.3	251.5	276.6	301.7	326.9	352.0	377.2	402.3	226.3	251.5	276.6	301.7	326.9	352.0						
OCV @ coldest temp (-10C, 14F amb)		219.0	243.4	267.7	292.0	316.4	340.7	365.0	389.4	219.0	243.4	267.7	292.0	316.4	340.7						
OCV @ coldest temp (0C, 32F amb)		211.7	235.3	258.9	282.5	306.1	329.7	353.4	377.1	211.7	235.3	258.9	282.5	306.1	329.7						
Power @ MPT (STC)		1080	1200	1320	1440	1560	1680	1800	1920	1080	1200	1320	1440	1560	1680						
PTC AC system power rating		880	978	1075	1173	1271	1369	1467	1565	880	978	1075	1173	1271	1369						
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Kycocera		Power @ MPT		88.0 W															
Module Model		KC88GCS REV 2		PTC Power Rating		77.8 W		120.0 W													
Voltage @ MPT (STC)		12.5 VDC		Temp Coeff of Vmp		0.061 V/degC		(Vmp)													
Current @ MPT (STC)		7.05 ADC		Temp Coeff of Voc		0.061 V/degC		(Voc)													
Current, short circuit		7.7 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F													
OCV @ 25 deg C cells		16.4 VDC																			
Modules total in array		12	13	14	15	16	17	18	19	20	21	24	26	28	30						
Modules per string		12	13	14	15	16	17	18	19	20	21	12	13	14	15						
Strings in Parallel		1	1	1	1	1	1	1	1	1	1	2	2	2	2						
Voltage @ MPT (STC)		150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	150.0	162.5	175.0	187.5						
Vmpt @ max amb temp (30C, 86F amb)		122.9	133.2	143.4	153.6	163.9	174.1	184.4	194.6	204.9	215.1	122.9	133.2	143.4	153.6						
Vmpt @ max amb temp (35C, 95F amb)		119.3	129.2	139.1	149.1	159.0	168.9	178.9	188.8	198.8	208.7	119.3	129.2	139.1	149.1						
Vmpt @ max amb temp (40C, 104F amb)		115.6	125.2	134.9	144.5	154.1	163.8	173.4	183.0	192.7	202.3	115.6	125.2	134.9	144.5						
Vmpt @ max amb temp (45C, 113F amb)		111.9	121.3	130.6	139.9	149.2	158.6	167.9	177.2	186.6	195.9	111.9	121.3	130.6	139.9						
Vmpt @ max amb temp (50C, 122F amb)		108.3	117.3	126.3	135.3	144.4	153.4	162.4	171.4	180.5	189.5	108.3	117.3	126.3	135.3						
OCV @ 25 deg C cells		196.8	213.2	229.6	246.0	262.4	278.8	295.2	311.6	328.0	344.4	196.8	213.2	229.6	246.0						
OCV @ coldest temp (-40C, -40F amb)		244.4	264.7	285.1	305.5	325.8	346.2	366.6	386.9	407.3	427.7	244.4	264.7	285.1	305.5						
OCV @ coldest temp (-30C, -22F amb)		237.1	256.8	276.6	296.3	316.1	335.8	355.6	375.3	395.1	414.9	237.1	256.8	276.6	296.3						
OCV @ coldest temp (-20C, -4F amb)		229.7	248.9	268.0	287.2	306.3	325.5	344.6	363.8	382.9	402.0	229.7	248.9	268.0	287.2						
OCV @ coldest temp (-10C, 14F amb)		222.4	241.0	259.5	278.0	296.6	315.1	333.6	352.2	370.7	389.2	222.4	241.0	259.5	278.0						
OCV @ coldest temp (0C, 32F amb)		215.1	233.0	251.0	268.9	286.8	304.7	322.6	340.6	358.5	376.4	215.1	233.0	251.0	268.9						
Power @ MPT (STC)		1056	1144	1232	1320	1408	1496	1584	1672	1760	1848	2112	2288	2464	2640						
PTC AC system power rating		884	936	1008	1079	1151	1223	1302	1375	1447	1520	1736	1881	2026	2171						
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500						

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Kycocera		Power @ MPT		80.0 W															
Module Model		KC80		PTC Power Rating		70.4 W		120.0 W													
Voltage @ MPT (STC)		16.9 VDC		Temp Coeff of Vmp		0.082 V/degC		(Vmp)													
Current @ MPT (STC)		4.73 ADC		Temp Coeff of Voc		0.082 V/degC		(Voc)													
Current, short circuit		4.97 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F													
OCV @ 25 deg C cells		21.5 VDC																			
Modules total in array		13	14	15	16	18	20	22	24	26	28	30	32	27	30						
Modules per string		13	14	15	16	18	20	22	24	26	28	30	32	27	30						
Strings in Parallel		1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Voltage @ MPT (STC)		210.7	236.6	262.5	270.4	152.1	169.0	185.9	202.8	219.7	236.6	262.5	270.4	152.1	169.0						
Vmpt @ max amb temp (30C, 86F amb)		180.3	194.1	208.0	221.9	124.3	138.7	152.5	166.4	180.3	194.1	208.0	221.9	124.3	138.7						
Vmpt @ max amb temp (35C, 95F amb)		174.9	188.4	201.8	215.3	121.1	134.6	148.0	161.5	174.9	188.4	201.8	215.3	121.1	134.6						
Vmpt @ max amb temp (40C, 104F amb)		169.6	182.6	195.7	208.7	117.4	130.5	143.5	156.6	169.6	182.6	195.7	208.7	117.4	130.5						
Vmpt @ max amb temp (45C, 113F amb)		164.3	176.9	189.5	202.2	113.7	126.4	139.0	151.6	164.3	176.9	189.5	202.2	113.7	126.4						
Vmpt @ max amb temp (50C, 122F amb)		159.0	171.2	183.4	195.6	110.0	122.5	134.5	146.7	159.0	171.2	183.4	195.6	110.0	122.5						
OCV @ 25 deg C cells		279.5	301.0	322.5	344.0	193.5	215.0	236.5	258.0	279.5	301.0	322.5	344.0	193.5	215.0						
OCV @ coldest temp (-40C, -40F amb)		348.8	375.6	402.5	429.3	241.5	268.3	295.1	322.0	348.8	375.6	402.5	429.3	241.5	268.3						
OCV @ coldest temp (-30C, -22F amb)		338.1	364.1	390.2	416.2	234.1	260.1	286.1	312.1	338.1	364.1	390.2	416.2	234.1	260.1						
OCV @ coldest temp (-20C, -4F amb)		327.5	352.7	377.9	403.0	226.7	251.9	277.1	302.3	327.5	352.7	377.9	403.0	226.7	251.9						
OCV @ coldest temp (-10C, 14F amb)		316.9	341.2	365.5	389.8	219.3	243.6	267.9	292.2	316.9	341.2	365.5	389.8	219.3	243.6						
OCV @ coldest temp (0C, 32F amb)		306.2	329.7	353.3	376.8	212.0	235.5	259.1	282.6	306.2	329.7	353.3	376.8	212.0	235.5						
Power @ MPT (STC)		1040	1120	1200	1280	1440	1600	1760	1920	2080	2240	2400	2560	2160	2400						
PTC AC system power rating		847	912	977	1042	1172	1302	1440	1571	1702	1833	1964	2095	1768	1964						
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500						

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Kycocera		Power @ MPT		65.0 W															
Module Model		KC65		PTC Power Rating		57.4 W		120.0 W													
Voltage @ MPT (STC)		17.9 VDC		Temp Coeff of Vmp		0.082 V/degC		(Vmp)													
Current @ MPT (STC)		3.64 ADC		Temp Coeff of Voc		0.082 V/degC		(Voc)													
Current, short circuit		3.97 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F													
OCV @ 25 deg C cells		21.8 VDC																			
Modules total in array		10	11	12	13	14	15	16	18	20	22	24	26	28	30						
Modules per string		10	11	12	13	14	15	16	18	20	22	24	26	28	30						
Strings in Parallel		1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Voltage @ MPT (STC)		179.0	196.9	214.8	232.7	250.6	268.5	286.4	304.3	179.0	196.9	214.8	232.7	250.6	268.5						
Vmpt @ max amb temp (30C, 86F amb)		148.7	163.5	178.4	193.3	208.1	223.0	237.9	252.8	148.7	163.5	178.4	193.3	208.1	223.0						
Vmpt @ max amb temp (35C, 95F amb)		144.6	159.0	173.5	187.9	202.4	216.8	231.3	245.7	144.6	159.0	173.5	187.9	202.4	216.8						
Vmpt @ max amb temp (40C, 104F amb)		140.5	154.5	168.6	182.6	196.6	210.7	224.7	238.8	140.5	154.5	168.6	182.6	196.6	210.7						
Vmpt @ max amb temp (45C,																					

Module Manufacturer	Matrix / PhotoVatt										Power @ MPT			165.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	PW 1650-17/24 (24V connection)										PTC Power Rating			149.0 W			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	34.4 VDC										Temp Coeff of Vmpt			0.158 V/degC			(Vmpt)		
Current @ MPT (STC)	4.8 ADC										Temp Coeff of Vocv			0.158 V/degC			(Vocv)		
Current, short circuit	5.1 ADC										NOCT (nom. cell temp)			45 deg C			113 deg F		
OCV @ 25 deg C cells	43.2 VDC																		
Modules total in array	5	6	7	8	10	12	14	16	15	18	21								
Modules per string	5	6	7	8	5	6	7	8	5	6	7								
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3								
Voltage @ MPT (STC)	172.0	206.4	240.8	275.2	172.0	206.4	240.8	275.2	172.0	206.4	240.8								
Vmpt @ max amb temp (30C, 86F amb)	144.4	173.2	202.1	231.0	144.4	173.2	202.1	231.0	144.4	173.2	202.1								
Vmpt @ max amb temp (35C, 95F amb)	140.4	168.5	196.6	224.6	140.4	168.5	196.6	224.6	140.4	168.5	196.6								
Vmpt @ max amb temp (40C, 104F amb)	136.5	163.7	191.0	218.3	136.5	163.7	191.0	218.3	136.5	163.7	191.0								
Vmpt @ max amb temp (45C, 113F amb)	132.5	159.0	185.5	212.0	132.5	159.0	185.5	212.0	132.5	159.0	185.5								
Vmpt @ max amb temp (50C, 122F amb)	128.6	154.3	180.0	205.7	128.6	154.3	180.0	205.7	128.6	154.3	180.0								
OCV @ 25 deg C cells	216.0	259.2	302.4	345.6	216.0	259.2	302.4	345.6	216.0	259.2	302.4								
OCV @ coldest temp (-40C, -40F amb)	267.4	320.8	374.3	427.8	267.4	320.8	374.3	427.8	267.4	320.8	374.3								
OCV @ coldest temp (-30C, -22F amb)	259.5	311.3	363.2	415.1	259.5	311.3	363.2	415.1	259.5	311.3	363.2								
OCV @ coldest temp (-20C, -4F amb)	251.6	301.9	352.2	402.5	251.6	301.9	352.2	402.5	251.6	301.9	352.2								
OCV @ coldest temp (-10C, 14F amb)	243.7	292.4	341.1	389.8	243.7	292.4	341.1	389.8	243.7	292.4	341.1								
OCV @ coldest temp (0C, 32F amb)	235.8	282.9	330.1	377.2	235.8	282.9	330.1	377.2	235.8	282.9	330.1								
Power @ MPT (STC)	825	990	1155	1320	1650	1980	2310	2640	2475	2970	3465								
PTC AC system power rating	689	827	965	1103	1378	1654	1940	2217	2079	2494	2910								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	Mitsubishi										Power @ MPT			169.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	PV-UD190MF5 (UD5)										PTC Power Rating			169.3 W			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	24.7 VDC										Temp Coeff of Vmpt			0.084 V/degC			(Vmpt)		
Current @ MPT (STC)	7.71 ADC										Temp Coeff of Vocv			0.106 V/degC			(Vocv)		
Current, short circuit	8.23 ADC										NOCT (nom. cell temp)			47.5 deg C			117.5 deg F		
OCV @ 25 deg C cells	30.8 VDC																		
Modules total in array	6	7	8	9	10	11	14	16	18	9	8								
Modules per string	6	7	8	9	10	11	7	8	9	8	9								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2								
Voltage @ MPT (STC)	148.2	172.9	197.6	222.3	247.0	271.7	172.9	197.6	222.3	247.0	271.7								
Vmpt @ max amb temp (30C, 86F amb)	129.3	150.9	172.4	194.0	215.5	237.1	150.9	172.4	194.0	215.5	237.1								
Vmpt @ max amb temp (35C, 95F amb)	126.8	147.9	169.0	190.2	211.3	232.4	147.9	169.0	190.2	211.3	232.4								
Vmpt @ max amb temp (40C, 104F amb)	124.3	145.0	165.7	186.4	207.1	227.8	145.0	165.7	186.4	207.1	227.8								
Vmpt @ max amb temp (45C, 113F amb)	121.7	142.0	162.3	182.6	202.9	223.2	142.0	162.3	182.6	202.9	223.2								
Vmpt @ max amb temp (50C, 122F amb)	119.2	139.1	159.0	178.8	198.7	218.6	139.1	159.0	178.8	198.7	218.6								
OCV @ 25 deg C cells	184.8	215.6	246.4	277.2	308.0	338.8	215.6	246.4	277.2	308.0	338.8								
OCV @ coldest temp (-40C, -40F amb)	226.1	263.8	301.5	339.2	376.9	414.6	263.8	301.5	339.2	376.9	414.6								
OCV @ coldest temp (-30C, -22F amb)	219.8	256.4	293.0	329.7	366.3	402.9	256.4	293.0	329.7	366.3	402.9								
OCV @ coldest temp (-20C, -4F amb)	213.4	249.0	284.6	320.1	355.7	391.3	249.0	284.6	320.1	355.7	391.3								
OCV @ coldest temp (-10C, 14F amb)	207.1	241.6	276.1	310.6	345.1	379.6	241.6	276.1	310.6	345.1	379.6								
OCV @ coldest temp (0C, 32F amb)	200.7	234.2	267.6	301.1	334.5	368.0	234.2	267.6	301.1	334.5	368.0								
Power @ MPT (STC)	1140	1350	1520	1710	1900	2090	2660	3040	3420	2660	3040								
PTC AC system power rating	940	1096	1253	1409	1566	1723	2204	2519	2834	2204	2519								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	Mitsubishi										Power @ MPT			185.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	PV-UD195MF5 (UD5)										PTC Power Rating			184.7 W			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	24.4 VDC										Temp Coeff of Vmpt			0.084 V/degC			(Vmpt)		
Current @ MPT (STC)	7.58 ADC										Temp Coeff of Vocv			0.105 V/degC			(Vocv)		
Current, short circuit	8.13 ADC										NOCT (nom. cell temp)			47.5 deg C			117.5 deg F		
OCV @ 25 deg C cells	30.6 VDC																		
Modules total in array	6	7	8	9	10	11	12	14	16	18	9								
Modules per string	6	7	8	9	10	11	12	7	8	9	8								
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	146.4	170.8	195.2	219.6	244.0	268.4	170.8	195.2	219.6	244.0	268.4								
Vmpt @ max amb temp (30C, 86F amb)	127.5	148.8	170.0	191.3	212.5	233.8	148.8	170.0	191.3	212.5	233.8								
Vmpt @ max amb temp (35C, 95F amb)	125.0	145.8	166.6	187.5	208.3	229.1	145.8	166.6	187.5	208.3	229.1								
Vmpt @ max amb temp (40C, 104F amb)	122.5	142.9	163.3	183.7	204.1	224.5	142.9	163.3	183.7	204.1	224.5								
Vmpt @ max amb temp (45C, 113F amb)	119.9	139.9	159.9	179.9	199.9	219.9	139.9	159.9	179.9	199.9	219.9								
Vmpt @ max amb temp (50C, 122F amb)	117.4	137.0	156.6	175.7	195.7	215.7	137.0	156.6	175.7	195.7	215.7								
OCV @ 25 deg C cells	183.6	214.2	244.8	275.4	306.0	336.6	214.2	244.8	275.4	306.0	336.6								
OCV @ coldest temp (-40C, -40F amb)	224.6	262.0	299.4	336.8	374.3	411.7	262.0	299.4	336.8	374.3	411.7								
OCV @ coldest temp (-30C, -22F amb)	218.3	254.6	291.0	327.4	363.8	400.1	254.6	291.0	327.4	363.8	400.1								
OCV @ coldest temp (-20C, -4F amb)	212.0	247.3	282.6	317.9	353.3	388.6	247.3	282.6	317.9	353.3	388.6								
OCV @ coldest temp (-10C, 14F amb)	205.7	241.2	276.5	311.9	347.2	382.5	241.2	276.5	311.9	347.2	382.5								
OCV @ coldest temp (0C, 32F amb)	199.4	232.6	265.8	299.0	332.3	365.5	232.6	265.8	299.0	332.3	365.5								
Power @ MPT (STC)	1110	1295	1480	1665	1850	2035	2220	2590	2960	3330	2590								
PTC AC system power rating	914	1066	1219	1371	1523	1676	1838	2144	2451	2757	2144								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	Mitsubishi										Power @ MPT			185.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	PV-MF185 UD4										PTC Power Rating			163.5 W			orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).		
Voltage @ MPT (STC)	24.4 VDC										Temp Coeff of Vmpt			0.106 V/degC			(Vmpt)		
Current @ MPT (STC)	7.58 ADC										Temp Coeff of Vocv			0.105 V/degC			(Vocv)		
Current, short circuit	8.13 ADC										NOCT (nom. cell temp)			46.6 deg C			115.88 deg F		
OCV @ 25 deg C cells	30.6 VDC																		
Modules total in array	6	7	8	9	10	11	12	14	16	18	9								
Modules per string	6	7	8	9	10	11	12	7	8	9	8								
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	146.4	170.8	195.2	219.6	244.0	268.4	170.8	195.2	219.6	244.0	268.4								
Vmpt @ max amb temp (30C, 86F amb)	123.1	143.6	164.2	184.7	205.2	225.7	143.6	164.2	184.7	205.2	225.7								
Vmpt @ max amb temp (35C, 95F amb)	119.9	139.9	159.9	179.9	199.9	219.9	139.9	159.9	179.9	199.9	219.9								
Vmpt @ max amb temp (40C, 104F amb)	116.8	136.2	155.7	175.1	194.5	214.1	136.2	155.7	175.1	194.5	214.1								
Vmpt @ max amb temp (45C, 113F amb)	113.6	132.5	151.4	170.4	189.3	208.2	132.5	151.4	170.4	189.3	208.2								
Vmpt @ max amb temp (50C, 122F amb)	110.4	128.8	147.2	165.6	184.0	202.4	128.8	147.2	165.6	184.0	202.4								
OCV @ 25 deg C cells	183.6	214.2	244.8	275.4	306.0	336.6	214.2	244.8	275.4	306.0	336.6								
OCV @ coldest temp (-40C, -40F amb)	224.9	262.4	299.9	337.4	374.9	412.4	262.4	299.9	337.4	374.9	412.4								
OCV @ coldest temp (-30C, -22F amb)	218.6	255.0	291.4	327.9	364.3	400.7	255.0	291.4	327.9	364.3	400.7								
OCV @ coldest temp (-20C, -4F amb)	212.2	247.6	283.0	318.3	353.7	389.1	247.6	283.0	318.3	353.7	389.1								
OCV @ coldest temp (-10C, 14F amb)	205.9	240.2	274.5	308.8	343.1	377.4	240.2	274.5	308.8	343.1	377.4								
OCV @ coldest temp (0C, 32F amb)	199.5	232.8	266.0	299.3	332.5	365.8	232.8	266.0	299.3	332.5	365.8								
Power @ MPT (STC)	1110	1295	1480	1665	1850	2035	2220	2590	2960	3330	2590								
PTC AC system power rating	907	1059	1210	1361	1512	1664	1825	2129	2433	2737	2129								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer	Mitsubishi										Power @ MPT			180.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK		
Module Model	PV-MF180 UD4 & PV-UD180MF5 (UD5)										PTC Power Rating			160.1 W			UD4 is 159W PTC		
Voltage @ MPT (STC)	24.2 VDC										Temp Coeff of Vmpt			0.084 V/degC			(Vmpt)		
Current @ MPT (STC)	7.45 ADC										Temp Coeff of Vocv			0.105 V/degC			(Vocv)		
Current, short circuit	8.03 ADC										NOCT (nom. cell temp)			46.6 deg C			115.88 deg F		
OCV @ 25 deg C cells	30.4 VDC																		
Modules total in array	6	7	8	9	10	11	12	14	16	18	9								
Modules per string	6	7	8	9	10	11	12	7	8	9	8								
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	145.2	169.4	193.6	217.8	242.0	266.2	169.4	193.6	217.8	242.0	266.								

Mitsubishi PV-MP120EC3 Power @ MPT 120.0 W For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Mitsubishi													
Module Model	PV-MP120EC3													
Voltage @ MPT (STC)	17.4 VDC				PTC Power Rating				107.6 W					
Current @ MPT (STC)	6.84 ADC				Temp Coeff of Vmpt				0.076 V/degC					
Current, short circuit	7.36 ADC				Temp Coeff of Vocv				0.076 V/degC					
OCV @ 25 deg C cells	22 VDC				NOCT (nom. cell temp)				46.6 deg C					
Modules total in array	9	10	11	12	13	14	15	16	18	20	22	24	26	28
Modules per string	9	10	11	12	13	14	15	16	9	10	11	12	13	14
Strings in Parallel	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Voltage @ MPT (STC)	158.4	176.0	193.6	211.2	228.8	246.4	264.0	281.6	158.4	176.0	193.6	211.2	228.8	246.4
Vmpt @ max amb temp (30C, 86F amb)	133.4	149.2	165.0	180.8	196.6	212.4	228.2	244.0	133.4	149.2	165.0	180.8	196.6	212.4
Vmpt @ max amb temp (35C, 95F amb)	129.9	144.4	158.8	173.3	187.7	202.1	216.6	231.0	129.9	144.4	158.8	173.3	187.7	202.1
Vmpt @ max amb temp (40C, 104F amb)	126.5	140.6	154.6	168.7	182.8	196.8	210.9	224.9	126.5	140.6	154.6	168.7	182.8	196.8
Vmpt @ max amb temp (45C, 113F amb)	123.1	136.8	150.5	164.1	177.8	191.5	205.2	218.9	123.1	136.8	150.5	164.1	177.8	191.5
Vmpt @ max amb temp (50C, 122F amb)	119.7	133.0	146.3	159.6	172.9	186.2	199.5	212.8	119.7	133.0	146.3	159.6	172.9	186.2
OCV @ 25 deg C cells	196.0	220.0	242.0	264.0	286.0	308.0	330.0	352.0	196.0	220.0	242.0	264.0	286.0	308.0
OCV @ coldest temp (-40C, -40F amb)	242.5	269.4	296.3	323.3	350.2	377.2	404.1	431.0	242.5	269.4	296.3	323.3	350.2	377.2
OCV @ coldest temp (-30C, -22F amb)	235.6	261.8	288.0	314.2	340.3	366.5	392.7	418.9	235.6	261.8	288.0	314.2	340.3	366.5
OCV @ coldest temp (-20C, -4F amb)	228.8	254.2	279.6	305.0	330.5	355.9	381.3	406.7	228.8	254.2	279.6	305.0	330.5	355.9
OCV @ coldest temp (-10C, 14F amb)	221.9	246.6	271.3	295.9	320.6	345.2	369.9	394.6	221.9	246.6	271.3	295.9	320.6	345.2
OCV @ coldest temp (0C, 32F amb)	215.1	239.0	262.9	286.8	310.7	334.6	358.5	382.4	215.1	239.0	262.9	286.8	310.7	334.6
Power @ MPT (STC)	1080	1200	1320	1440	1560	1680	1800	1920	2160	2400	2640	2880	3120	3360
PTC AC system power rating	896	995	1095	1194	1294	1393	1501	1601	1801	2001	2201	2402	2602	2802
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Ningbo (see under Alpha 170W) Open Energy SolarSave Roofing Tiles Power @ MPT 34.0 W NOTE - values for NOCT and Temp Coeff are estimated For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Open Energy													
Module Model	SolarSave Roofing Tiles													
Voltage @ MPT (STC)	4.8 VDC				PTC Power Rating				29.6 W					
Current @ MPT (STC)	7.09 ADC				Temp Coeff of Vmpt				0.0224 V/degC					
Current, short circuit	7.76 ADC				Temp Coeff of Vocv				0.0224 V/degC					
OCV @ 25 deg C cells	6.07 VDC				NOCT (nom. cell temp)				46 deg C					
Modules total in array	32	36	40	44	48	52	56	64	72	80	88	96	104	112
Modules per string	32	36	40	44	48	52	56	32	36	40	44	48	52	56
Strings in Parallel	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Voltage @ MPT (STC)	153.6	172.8	192.0	211.2	230.4	249.6	268.8	153.6	172.8	192.0	211.2	230.4	249.6	268.8
Vmpt @ max amb temp (30C, 86F amb)	127.9	143.8	159.7	175.7	191.7	207.7	223.6	127.9	143.8	159.7	175.7	191.7	207.7	223.6
Vmpt @ max amb temp (35C, 95F amb)	124.2	139.7	155.3	170.8	186.3	201.8	217.4	124.2	139.7	155.3	170.8	186.3	201.8	217.4
Vmpt @ max amb temp (40C, 104F amb)	120.6	135.7	150.8	165.9	180.9	196.0	211.1	120.6	135.7	150.8	165.9	180.9	196.0	211.1
Vmpt @ max amb temp (45C, 113F amb)	117.0	131.7	146.3	160.9	175.6	190.2	204.8	117.0	131.7	146.3	160.9	175.6	190.2	204.8
Vmpt @ max amb temp (50C, 122F amb)	113.5	127.6	141.8	156.0	170.2	184.4	198.6	113.5	127.6	141.8	156.0	170.2	184.4	198.6
OCV @ 25 deg C cells	194.2	218.5	242.8	267.1	291.4	315.6	339.9	194.2	218.5	242.8	267.1	291.4	315.6	339.9
OCV @ coldest temp (-40C, -40F amb)	240.8	270.9	301.0	331.1	361.2	391.4	421.5	240.8	270.9	301.0	331.1	361.2	391.4	421.5
OCV @ coldest temp (-30C, -22F amb)	233.7	262.9	292.1	321.3	350.5	379.7	408.9	233.7	262.9	292.1	321.3	350.5	379.7	408.9
OCV @ coldest temp (-20C, -4F amb)	226.5	254.8	283.1	311.4	339.7	368.1	396.4	226.5	254.8	283.1	311.4	339.7	368.1	396.4
OCV @ coldest temp (-10C, 14F amb)	219.3	246.7	274.2	301.6	329.0	356.4	383.8	219.3	246.7	274.2	301.6	329.0	356.4	383.8
OCV @ coldest temp (0C, 32F amb)	212.2	239.7	267.2	294.7	322.2	349.7	377.2	212.2	239.7	267.2	294.7	322.2	349.7	377.2
Power @ MPT (STC)	1088	1224	1360	1496	1632	1768	1904	2176	2448	2720	2992	3264	3536	3808
PTC AC system power rating	876	986	1095	1205	1314	1424	1542	1762	1982	2202	2422	2643	2863	3083
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500

REC Solar 230AE Power @ MPT (STC) 230.0 W For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	REC Solar													
Module Model	230AE													
Voltage @ MPT (STC)	29.5 VDC				PTC Power Rating				200.7 W					
Current @ MPT (STC)	8 ADC				Temp Coeff of Vmpt				0.125 V/degC					
Current, short circuit	8.5 ADC				Temp Coeff of Vocv				0.125 V/degC					
OCV @ 25 deg C cells	36.9 VDC				NOCT (nom. cell temp)				47.5 deg C					
Modules total in array	6	7	8	9	10	12	14							
Modules per string	6	7	8	9	10	6	7							
Strings in Parallel	1	1	1	1	1	2	2							
Voltage @ MPT (STC)	177.0	206.5	236.0	265.5	295.0	177.0	206.5							
Vmpt @ max amb temp (30C, 86F amb)	148.8	173.6	198.4	223.2	248.0	148.8	173.6							
Vmpt @ max amb temp (35C, 95F amb)	145.0	169.2	193.3	217.5	241.7	145.0	169.2							
Vmpt @ max amb temp (40C, 104F amb)	141.2	164.8	188.3	211.9	235.4	141.2	164.8							
Vmpt @ max amb temp (45C, 113F amb)	137.5	160.4	183.3	206.2	229.1	137.5	160.4							
Vmpt @ max amb temp (50C, 122F amb)	133.7	156.0	178.3	200.6	222.9	133.7	156.0							
OCV @ 25 deg C cells	221.4	258.3	295.2	332.1	369.0	221.4	258.3							
OCV @ coldest temp (-40C, -40F amb)	270.3	315.4	360.4	405.5	450.5	270.3	315.4							
OCV @ coldest temp (-30C, -22F amb)	262.8	306.6	350.4	394.2	438.0	262.8	306.6							
OCV @ coldest temp (-20C, -4F amb)	255.3	297.9	340.4	382.9	425.5	255.3	297.9							
OCV @ coldest temp (-10C, 14F amb)	247.7	289.0	330.3	371.6	412.9	247.7	289.0							
OCV @ coldest temp (0C, 32F amb)	240.2	280.3	320.3	360.3	400.4	240.2	280.3							
Power @ MPT (STC)	1410	1645	1880	2115	2350	2820	3290							
PTC AC system power rating	0	0	0	0	0	0	0							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500							

REC Solar 230AE Power @ MPT (STC) 230.0 W For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	REC Solar													
Module Model	230AE													
Voltage @ MPT (STC)	29.1 VDC				PTC Power Rating				200.7 W					
Current @ MPT (STC)	7.9 ADC				Temp Coeff of Vmpt				0.125 V/degC					
Current, short circuit	8.4 ADC				Temp Coeff of Vocv				0.125 V/degC					
OCV @ 25 deg C cells	36.8 VDC				NOCT (nom. cell temp)				47.5 deg C					
Modules total in array	6	7	8	9	10	12	14							
Modules per string	6	7	8	9	10	6	7							
Strings in Parallel	1	1	1	1	1	2	2							
Voltage @ MPT (STC)	174.6	203.7	232.8	261.9	291.0	174.6	203.7							
Vmpt @ max amb temp (30C, 86F amb)	146.4	170.9	195.3	219.7	244.1	146.4	170.9							
Vmpt @ max amb temp (35C, 95F amb)	142.7	166.5	190.3	214.0	237.7	142.7	166.5							
Vmpt @ max amb temp (40C, 104F amb)	138.9	162.1	185.3	208.4	231.6	138.9	162.1							
Vmpt @ max amb temp (45C, 113F amb)	135.2	157.7	180.2	202.8	225.3	135.2	157.7							
Vmpt @ max amb temp (50C, 122F amb)	131.4	153.3	175.2	197.2	219.1	131.4	153.3							
OCV @ 25 deg C cells	220.8	257.6	294.4	331.2	368.0	220.8	257.6							
OCV @ coldest temp (-40C, -40F amb)	269.6	314.5	359.5	404.4	449.3	269.6	314.5							
OCV @ coldest temp (-30C, -22F amb)	262.1	305.8	349.5	393.1	436.8	262.1	305.8							
OCV @ coldest temp (-20C, -4F amb)	254.6	297.0	339.4	381.9	424.3	254.6	297.0							
OCV @ coldest temp (-10C, 14F amb)	247.1	288.3	329.4	370.6	411.8	247.1	288.3							
OCV @ coldest temp (0C, 32F amb)	239.6	279.5	319.4	359.3	399.2	239.6	279.5							
Power @ MPT (STC)	1380	1610	1840	2070	2300	2760	3220							
PTC AC system power rating	1114	1300	1485	1671	1856	2228	2613							
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		REC Solar		Power @ MPT (STC)		225.0 W			
Module Model		225AE		PTC Power Rating		192.0 W			
Voltage @ MPT (STC)		28.8 VDC		Temp Coeff of Vmp		0.124 V/degC		(Vmp)	
Current @ MPT (STC)		7.8 ADC		Temp Coeff of Voc		0.124 V/degC		(Voc)	
Current, short circuit		8.4 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.6 VDC							
Modules total in array	6	7	8	9	10	12	14		
Modules per string	6	7	8	9	10	6	7		
Strings in Parallel	1	1	1	1	1	2	2		
Voltage @ MPT (STC)	172.8	201.6	230.4	259.2	288.0	172.8	201.6		
Vmp @ max amb temp (30C, 86F amb)	144.3	168.9	193.1	217.2	241.3	144.3	168.9		
Vmp @ max amb temp (35C, 95F amb)	141.1	164.6	188.1	211.6	235.1	141.1	164.6		
Vmp @ max amb temp (40C, 104F amb)	137.3	160.2	183.1	206.0	228.9	137.3	160.2		
Vmp @ max amb temp (45C, 113F amb)	133.6	155.9	178.1	200.4	222.7	133.6	155.9		
Vmp @ max amb temp (50C, 122F amb)	129.9	151.5	173.2	194.8	216.4	129.9	151.5		
OCV @ 25 deg C cells	219.6	256.2	292.8	329.4	366.0	219.6	256.2		
OCV @ coldest temp (-40C, -40F amb)	268.1	312.8	357.5	402.2	446.9	268.1	312.8		
OCV @ coldest temp (-30C, -22F amb)	260.7	304.1	347.6	391.0	434.4	260.7	304.1		
OCV @ coldest temp (-20C, -4F amb)	253.2	295.4	337.6	379.8	422.0	253.2	295.4		
OCV @ coldest temp (-10C, 14F amb)	245.7	286.7	327.6	368.6	409.6	245.7	286.7		
OCV @ coldest temp (0C, 32F amb)	238.3	278.0	317.7	357.4	397.1	238.3	278.0		
Power @ MPT (STC)	1350	1575	1800	2025	2250	2700	3150		
PTC AC system power rating	1089	1270	1452	1633	1815	2178	2555		
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500		

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		REC Solar		Power @ MPT (STC)		220.0 W			
Module Model		220AE		PTC Power Rating		191.7 W			
Voltage @ MPT (STC)		28.4 VDC		Temp Coeff of Vmp		0.124 V/degC		(Vmp)	
Current @ MPT (STC)		7.8 ADC		Temp Coeff of Voc		0.124 V/degC		(Voc)	
Current, short circuit		8.4 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.4 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	170.4	198.8	227.2	255.6	284.0	170.4	198.8	227.2	
Vmp @ max amb temp (30C, 86F amb)	142.6	166.3	190.1	213.8	237.6	142.6	166.3	190.1	
Vmp @ max amb temp (35C, 95F amb)	138.8	162.0	185.1	208.3	231.4	138.8	162.0	185.1	
Vmp @ max amb temp (40C, 104F amb)	135.1	157.6	180.2	202.7	225.2	135.1	157.6	180.2	
Vmp @ max amb temp (45C, 113F amb)	131.4	153.3	175.2	197.1	219.0	131.4	153.3	175.2	
Vmp @ max amb temp (50C, 122F amb)	127.7	149.0	170.3	191.6	212.8	127.7	149.0	170.3	
OCV @ 25 deg C cells	218.4	254.8	291.2	327.6	364.0	218.4	254.8	291.2	
OCV @ coldest temp (-40C, -40F amb)	267.7	311.1	355.6	400.0	444.4	267.7	311.1	355.6	
OCV @ coldest temp (-30C, -22F amb)	259.2	302.4	345.7	388.9	432.1	259.2	302.4	345.7	
OCV @ coldest temp (-20C, -4F amb)	251.8	293.8	335.8	377.7	419.7	251.8	293.8	335.8	
OCV @ coldest temp (-10C, 14F amb)	244.4	285.1	325.9	366.6	407.3	244.4	285.1	325.9	
OCV @ coldest temp (0C, 32F amb)	237.0	276.5	316.0	355.4	394.9	237.0	276.5	316.0	
Power @ MPT (STC)	1320	1540	1760	1980	2200	2640	3080	3520	
PTC AC system power rating	1064	1241	1419	1596	1773	2128	2496	2852	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		REC Solar		Power @ MPT (STC)		215.0 W			
Module Model		215AE		PTC Power Rating		187.2 W			
Voltage @ MPT (STC)		28 VDC		Temp Coeff of Vmp		0.123 V/degC		(Vmp)	
Current @ MPT (STC)		7.7 ADC		Temp Coeff of Voc		0.123 V/degC		(Voc)	
Current, short circuit		8.3 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.3 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	168.0	196.0	224.0	252.0	280.0	168.0	196.0	224.0	
Vmp @ max amb temp (30C, 86F amb)	140.2	163.6	187.0	210.3	233.7	140.2	163.6	187.0	
Vmp @ max amb temp (35C, 95F amb)	136.5	159.3	182.0	204.8	227.5	136.5	159.3	182.0	
Vmp @ max amb temp (40C, 104F amb)	132.8	155.0	177.1	199.2	221.4	132.8	155.0	177.1	
Vmp @ max amb temp (45C, 113F amb)	129.1	150.6	172.2	193.7	215.2	129.1	150.6	172.2	
Vmp @ max amb temp (50C, 122F amb)	125.4	146.3	167.2	186.2	209.0	125.4	146.3	167.2	
OCV @ 25 deg C cells	217.8	254.1	290.4	326.7	363.0	217.8	254.1	290.4	
OCV @ coldest temp (-40C, -40F amb)	265.9	310.3	354.6	398.9	443.2	265.9	310.3	354.6	
OCV @ coldest temp (-30C, -22F amb)	258.5	301.6	344.7	387.8	430.9	258.5	301.6	344.7	
OCV @ coldest temp (-20C, -4F amb)	251.1	293.0	334.8	376.7	418.5	251.1	293.0	334.8	
OCV @ coldest temp (-10C, 14F amb)	243.7	284.3	325.0	365.7	406.3	243.7	284.3	325.0	
OCV @ coldest temp (0C, 32F amb)	236.3	275.7	315.1	354.5	393.9	236.3	275.7	315.1	
Power @ MPT (STC)	1290	1505	1720	1935	2150	2580	3010	3440	
PTC AC system power rating	1039	1212	1385	1558	1732	2078	2437	2786	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		REC Solar		Power @ MPT (STC)		215.0 W			
Module Model		SCM 215		PTC Power Rating		191.3 W			
Voltage @ MPT (STC)		28.3 VDC		Temp Coeff of Vmp		0.123 V/degC		(Vmp)	
Current @ MPT (STC)		7.6 ADC		Temp Coeff of Voc		0.123 V/degC		(Voc)	
Current, short circuit		8.1 ADC		NOCT (nom. cell temp)		43 deg C		109.4 deg F	
OCV @ 25 deg C cells		36.3 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	169.8	198.1	226.4	254.7	283.0	169.8	198.1	226.4	
Vmp @ max amb temp (30C, 86F amb)	145.4	169.6	193.8	218.0	242.3	145.4	169.6	193.8	
Vmp @ max amb temp (35C, 95F amb)	141.7	165.3	188.9	212.5	236.1	141.7	165.3	188.9	
Vmp @ max amb temp (40C, 104F amb)	138.0	161.0	183.9	206.9	229.9	138.0	161.0	183.9	
Vmp @ max amb temp (45C, 113F amb)	134.3	156.6	179.0	201.4	223.8	134.3	156.6	179.0	
Vmp @ max amb temp (50C, 122F amb)	130.6	152.3	174.1	195.8	217.6	130.6	152.3	174.1	
OCV @ 25 deg C cells	217.8	254.1	290.4	326.7	363.0	217.8	254.1	290.4	
OCV @ coldest temp (-40C, -40F amb)	265.9	310.3	354.6	398.9	443.2	265.9	310.3	354.6	
OCV @ coldest temp (-30C, -22F amb)	258.5	301.6	344.7	387.8	430.9	258.5	301.6	344.7	
OCV @ coldest temp (-20C, -4F amb)	251.1	293.0	334.8	376.7	418.5	251.1	293.0	334.8	
OCV @ coldest temp (-10C, 14F amb)	243.7	284.3	325.0	365.6	406.2	243.7	284.3	325.0	
OCV @ coldest temp (0C, 32F amb)	236.3	275.7	315.1	354.5	393.9	236.3	275.7	315.1	
Power @ MPT (STC)	1290	1505	1720	1935	2150	2580	3010	3440	
PTC AC system power rating	1062	1239	1416	1592	1769	2123	2491	2846	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		REC Solar		Power @ MPT (STC)		230.0 W			
Module Model		SCM 210 (230 Wp)		PTC Power Rating		0.0 W			
Voltage @ MPT (STC)		28.5 VDC		Temp Coeff of Vmp		0.104 V/degC		(Vmp)	
Current @ MPT (STC)		8 ADC		Temp Coeff of Voc		0.104 V/degC		(Voc)	
Current, short circuit		8.6 ADC		NOCT (nom. cell temp)		43 deg C		109.4 deg F	
OCV @ 25 deg C cells		36.7 VDC							
Modules total in array	6	7	8	9	10	12	14		
Modules per string	6	7	8	9	10	6	7		
Strings in Parallel	1	1	1	1	1	2	2		
Voltage @ MPT (STC)	171.0	199.5	228.0	256.5	285.0	171.0	199.5		
Vmp @ max amb temp (30C, 86F amb)	150.4	175.5	200.5	225.6	250.7	150.4	175.5		
Vmp @ max amb temp (35C, 95F amb)	147.3	171.8	196.4	220.9	245.5	147.3	171.8		
Vmp @ max amb temp (40C, 104F amb)	144.2	168.2	192.2	216.3	240.3	144.2	168.2		
Vmp @ max amb temp (45C, 113F amb)	141.0	164.6	188.1	211.6	235.1	141.0	164.6		
Vmp @ max amb temp (50C, 122F amb)	137.9	160.9	183.9	206.9	229.9	137.9	160.9		
OCV @ 25 deg C cells	220.2	256.9	293.6	330.3	367.0	220.2	256.9		
OCV @ coldest temp (-40C, -40F amb)	260.8	304.2	347.7	391.1	434.6	260.8	304.2		
OCV @ coldest temp (-30C, -22F amb)	254.5	296.9	339.4	381.8	424.2	254.5	296.9		
OCV @ coldest temp (-20C, -4F amb)	248.3	289.7	331.0	372.4	413.8	248.3	289.7		
OCV @ coldest temp (-10C, 14F amb)	242.0	282.4	322.7	363.1	403.4	242.0	282.4		
OCV @ coldest temp (0C, 32F amb)	235.8	275.1	314.4	353.7	393.0				

Module Manufacturer			REC Solar				Power @ MPT (STC)			225.0 W		
Module Model			SCM 210 (225 Wp)				PTC Power Rating			0.0 W		
Voltage @ MPT (STC)			22.4 VDC				PTC Power Rating			0.0 W		
Current @ MPT (STC)			7.9 ADC				Temp Coeff of Vmp			0.104 V/degC		
Current, short circuit			8.5 ADC				Temp Coeff of Vocv			0.104 V/degC		
OCV @ 25 deg C cells			36.7 VDC				NOCT (nom. cell temp)			43 deg C		
Modules total in array	6	7	8	9	10	12	14					
Modules per string	6	7	8	9	10	6	7					
Strings in Parallel	1	1	1	1	1	2	2					
Voltage @ MPT (STC)	170.4	198.8	227.2	255.6	284.0	170.4	198.8					
Vmpt @ max amb temp (30C, 86F amb)	145.8	174.8	199.7	224.7	249.7	145.8	174.8					
Vmpt @ max amb temp (35C, 95F amb)	146.7	171.1	195.6	220.0	244.5	146.7	171.1					
Vmpt @ max amb temp (40C, 104F amb)	143.6	167.5	191.4	215.4	239.3	143.6	167.5					
Vmpt @ max amb temp (45C, 113F amb)	140.4	163.9	187.3	210.7	234.1	140.4	163.9					
Vmpt @ max amb temp (50C, 122F amb)	137.3	160.2	183.1	206.0	228.9	137.3	160.2					
OCV @ 25 deg C cells	220.2	256.9	293.6	330.3	367.0	220.2	256.9					
OCV @ coldest temp (-40C, -40F amb)	260.8	304.2	347.7	391.1	434.6	260.8	304.2					
OCV @ coldest temp (-30C, -22F amb)	254.5	296.9	339.4	381.8	424.2	254.5	296.9					
OCV @ coldest temp (-20C, -4F amb)	248.3	289.7	331.0	372.4	413.8	248.3	289.7					
OCV @ coldest temp (-10C, 14F amb)	242.0	282.4	322.7	363.1	403.4	242.0	282.4					
OCV @ coldest temp (0C, 32F amb)	235.8	275.1	314.4	353.7	393.0	235.8	275.1					
Power @ MPT (STC)	1390	1575	1800	2025	2250	2700	3150					
PTC AC system power rating	0	0	0	0	0	0	0					
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500					

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer			REC Solar				Power @ MPT (STC)			220.0 W		
Module Model			SCM 210 (220 Wp)				PTC Power Rating			0.0 W		
Voltage @ MPT (STC)			28.3 VDC				PTC Power Rating			0.0 W		
Current @ MPT (STC)			7.7 ADC				Temp Coeff of Vmp			0.104 V/degC		
Current, short circuit			8.3 ADC				Temp Coeff of Vocv			0.104 V/degC		
OCV @ 25 deg C cells			36.5 VDC				NOCT (nom. cell temp)			43 deg C		
Modules total in array	6	7	8	9	10	12	14	16				
Modules per string	6	7	8	9	10	6	7	8				
Strings in Parallel	1	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	169.8	198.1	226.4	254.7	283.0	169.8	198.1	226.4				
Vmpt @ max amb temp (30C, 86F amb)	149.2	174.1	198.9	223.8	248.7	149.2	174.1	198.9				
Vmpt @ max amb temp (35C, 95F amb)	146.1	170.4	194.8	219.1	243.5	146.1	170.4	194.8				
Vmpt @ max amb temp (40C, 104F amb)	143.0	166.8	190.6	214.5	238.3	143.0	166.8	190.6				
Vmpt @ max amb temp (45C, 113F amb)	139.8	163.2	186.5	209.8	233.1	139.8	163.2	186.5				
Vmpt @ max amb temp (50C, 122F amb)	136.7	159.5	182.3	205.1	227.9	136.7	159.5	182.3				
OCV @ 25 deg C cells	219.0	255.5	292.0	328.5	365.0	219.0	255.5	292.0				
OCV @ coldest temp (-40C, -40F amb)	259.6	302.8	346.1	389.3	432.6	259.6	302.8	346.1				
OCV @ coldest temp (-30C, -22F amb)	253.3	295.5	337.8	380.3	423.2	253.3	295.5	337.8				
OCV @ coldest temp (-20C, -4F amb)	247.1	288.3	329.4	370.6	411.8	247.1	288.3	329.4				
OCV @ coldest temp (-10C, 14F amb)	240.8	281.0	321.1	361.3	401.4	240.8	281.0	321.1				
OCV @ coldest temp (0C, 32F amb)	234.6	273.7	312.8	351.9	391.0	234.6	273.7	312.8				
Power @ MPT (STC)	1320	1540	1760	1980	2200	2640	3080	3520				
PTC AC system power rating	0	0	0	0	0	0	0	0				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer			REC Solar				Power @ MPT (STC)			215.0 W		
Module Model			SCM 210 (215 Wp)				PTC Power Rating			0.0 W		
Voltage @ MPT (STC)			28.3 VDC				PTC Power Rating			0.0 W		
Current @ MPT (STC)			7.6 ADC				Temp Coeff of Vmp			0.104 V/degC		
Current, short circuit			8.2 ADC				Temp Coeff of Vocv			0.104 V/degC		
OCV @ 25 deg C cells			36.4 VDC				NOCT (nom. cell temp)			43 deg C		
Modules total in array	6	7	8	9	10	12	14	16				
Modules per string	6	7	8	9	10	6	7	8				
Strings in Parallel	1	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	169.8	198.1	226.4	254.7	283.0	169.8	198.1	226.4				
Vmpt @ max amb temp (30C, 86F amb)	149.2	174.1	198.9	223.8	248.7	149.2	174.1	198.9				
Vmpt @ max amb temp (35C, 95F amb)	146.1	170.4	194.8	219.1	243.5	146.1	170.4	194.8				
Vmpt @ max amb temp (40C, 104F amb)	143.0	166.8	190.6	214.5	238.3	143.0	166.8	190.6				
Vmpt @ max amb temp (45C, 113F amb)	139.8	163.2	186.5	209.8	233.1	139.8	163.2	186.5				
Vmpt @ max amb temp (50C, 122F amb)	136.7	159.5	182.3	205.1	227.9	136.7	159.5	182.3				
OCV @ 25 deg C cells	218.4	254.8	291.2	327.6	364.0	218.4	254.8	291.2				
OCV @ coldest temp (-40C, -40F amb)	259.0	302.1	345.3	388.4	431.6	259.0	302.1	345.3				
OCV @ coldest temp (-30C, -22F amb)	252.7	294.8	337.0	379.1	421.2	252.7	294.8	337.0				
OCV @ coldest temp (-20C, -4F amb)	246.5	287.6	328.6	369.7	410.8	246.5	287.6	328.6				
OCV @ coldest temp (-10C, 14F amb)	240.2	280.3	320.3	360.4	400.4	240.2	280.3	320.3				
OCV @ coldest temp (0C, 32F amb)	234.0	273.0	312.0	351.0	390.0	234.0	273.0	312.0				
Power @ MPT (STC)	1290	1505	1720	1935	2150	2580	3010	3440				
PTC AC system power rating	0	0	0	0	0	0	0	0				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer			REC Solar				Power @ MPT (STC)			210.0 W		
Module Model			210AE				PTC Power Rating			182.7 W		
Voltage @ MPT (STC)			27.6 VDC				PTC Power Rating			182.7 W		
Current @ MPT (STC)			7.6 ADC				Temp Coeff of Vmp			0.123 V/degC		
Current, short circuit			8.3 ADC				Temp Coeff of Vocv			0.123 V/degC		
OCV @ 25 deg C cells			36.1 VDC				NOCT (nom. cell temp)			47.5 deg C		
Modules total in array	6	7	8	9	10	12	14	16				
Modules per string	6	7	8	9	10	6	7	8				
Strings in Parallel	1	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	165.6	193.2	220.8	248.4	276.0	165.6	193.2	220.8				
Vmpt @ max amb temp (30C, 86F amb)	137.9	160.9	183.9	206.9	229.9	137.9	160.9	183.9				
Vmpt @ max amb temp (35C, 95F amb)	134.2	156.6	179.0	201.4	223.7	134.2	156.6	179.0				
Vmpt @ max amb temp (40C, 104F amb)	130.5	152.3	174.1	195.8	217.5	130.5	152.3	174.1				
Vmpt @ max amb temp (45C, 113F amb)	126.9	148.0	169.1	190.3	211.4	126.9	148.0	169.1				
Vmpt @ max amb temp (50C, 122F amb)	123.2	143.7	164.2	184.7	205.3	123.2	143.7	164.2				
OCV @ 25 deg C cells	216.6	252.7	288.8	324.9	361.0	216.6	252.7	288.8				
OCV @ coldest temp (-40C, -40F amb)	264.6	308.7	352.8	396.9	441.0	264.6	308.7	352.8				
OCV @ coldest temp (-30C, -22F amb)	257.2	300.1	342.9	385.8	428.7	257.2	300.1	342.9				
OCV @ coldest temp (-20C, -4F amb)	249.8	291.4	333.1	374.7	416.4	249.8	291.4	333.1				
OCV @ coldest temp (-10C, 14F amb)	242.4	282.8	323.2	363.6	404.1	242.4	282.8	323.2				
OCV @ coldest temp (0C, 32F amb)	235.1	274.2	313.4	352.6	391.8	235.1	274.2	313.4				
Power @ MPT (STC)	1260	1470	1680	1890	2100	2520	2940	3360				
PTC AC system power rating	1014	1183	1352	1521	1690	2028	2379	2719				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer			REC Solar				Power @ MPT (STC)			210.0 W		
Module Model			SCM 210				PTC Power Rating			186.7 W		
Voltage @ MPT (STC)			28.2 VDC				PTC Power Rating			186.7 W		
Current @ MPT (STC)			7.5 ADC				Temp Coeff of Vmp			0.104 V/degC		
Current, short circuit			8.1 ADC				Temp Coeff of Vocv			0.104 V/degC		
OCV @ 25 deg C cells			36.3 VDC				NOCT (nom. cell temp)			43 deg C		
Modules total in array	6	7	8	9	10	12	14	16				
Modules per string	6	7	8	9	10	6	7	8				
Strings in Parallel	1	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	169.2	197.4	225.6	253.8	282.0	169.2	197.4	225.6				
Vmpt @ max amb temp (30C, 86F amb)	148.6	173.4	198.1	222.9	247.7	148.6	173.4	198.1				
Vmpt @ max amb temp (35C, 95F amb)	145.5	169.7	194.0	218.2	242.5	145.5	169.7	194.0				
Vmpt @ max amb temp (40C, 104F amb)	142.4	166.1	189.8	213.6	237.3	142.4	166.1	189.8				
Vmpt @ max amb temp (45C, 113F amb)	139.2	162.5	185.7	208.9	232.1	139.2	162.5	185.7				
Vmpt @ max amb temp (50C, 122F amb)	136.1	158.8	181.5	204.2	226.9	136.1	158.8	181.5				
OCV @ 25 deg C cells	217.8	254.1	290.4	326.7	363.0	217.8	254.1	290.4				
OCV @ coldest temp (-40C, -40F amb)	258.4	301.4	344.5	387.5	430.6	258.4	301.4	344.5				
OCV @ coldest temp (-30C, -22F amb)	252.1	294.1	336.2	378.2	420.2	252.1	294.1	336.2				
OCV @ coldest temp (-20C, -4F amb)	245.9	286.9	327.8	368.8	409.8	245.9	286.9	327.8				
OCV @ coldest temp (-10C, 14F amb)	239.6	278.6	319.5	359.5	399.4	239.6	278.6	319.5				
OCV @ coldest temp (0C, 32F amb)	233.4	270.3	311.2	350.1	389.0	233.4	270.3	311.2				
Power @ MPT (STC)	1260	1470	1680	1890	2100	2520	2940	3360				
PTC AC system power rating	1036	1209	1382	1554	1727	2072	2431	2778				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		REC Solar										Power @ MPT (STC)			205.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		205AE										PTC Power Rating		178.2 W			
Voltage @ MPT (STC)		27.2 VDC										Temp Coeff of Vmppt		0.122 V/degC (Vmppt)			
Current @ MPT (STC)		7.6 ADC										Temp Coeff of Vocv		0.122 V/degC (Vocv)			
Current, short circuit		8.3 ADC										NOCT (nom. cell temp)		47.5 deg C			
OCV @ 25 deg C cells		36 VDC												117.5 deg F			
Modules total in array		6		7		8		9		10		12		14		16	
Modules per string		6		7		8		9		10		6		7		8	
Strings in Parallel		1		1		1		1		1		2		2		2	
Voltage @ MPT (STC)		163.2		190.4		217.6		244.8		272.0		163.2		190.4		217.6	
Vmppt @ max amb temp (30C, 86F amb)		135.7		158.3		180.9		203.5		226.1		135.7		158.3		180.9	
Vmppt @ max amb temp (35C, 95F amb)		132.0		154.0		176.0		198.0		220.0		132.0		154.0		176.0	
Vmppt @ max amb temp (40C, 104F amb)		128.3		149.7		171.1		192.5		213.9		128.3		149.7		171.1	
Vmppt @ max amb temp (45C, 113F amb)		124.6		145.4		166.2		187.0		207.7		124.6		145.4		166.2	
Vmppt @ max amb temp (50C, 122F amb)		121.0		141.1		161.3		181.5		201.6		121.0		141.1		161.3	
OCV @ 25 deg C cells		216.0		252.0		288.0		324.0		360.0		216.0		252.0		288.0	
OCV @ coldest temp (-40C, -40F amb)		263.7		307.7		351.6		395.6		439.6		263.7		307.7		351.6	
OCV @ coldest temp (-30C, -22F amb)		256.4		299.1		341.9		384.6		427.3		256.4		299.1		341.9	
OCV @ coldest temp (-20C, -4F amb)		249.0		290.6		332.1		373.6		415.1		249.0		290.6		332.1	
OCV @ coldest temp (-10C, 14F amb)		241.7		282.0		322.3		362.6		402.8		241.7		282.0		322.3	
OCV @ coldest temp (0C, 32F amb)		234.4		273.4		312.5		351.5		390.6		234.4		273.4		312.5	
Power @ MPT (STC)		1230		1435		1640		1845		2050		1230		1435		1640	
PTC AC system power rating		989		1154		1319		1484		1648		989		1154		1319	
Suggested Inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500		PVI 2500		PVI 2500	

Module Manufacturer		Sanyo										Power @ MPT			219.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output				
Module Model		HIT Power 215N or HIP-215NKHAE										PTC Power Rating		199.6 W							
Voltage @ MPT (STC)		42.0 VDC										Temp Coeff of Vmppt		0.143 V/degC (Vmppt)							
Current @ MPT (STC)		5.13 ADC										Temp Coeff of Vocv		0.143 V/degC (Vocv)							
Current, short circuit		5.61 ADC										NOCT (nom. cell temp)		46 deg C							
OCV @ 25 deg C cells		51.6 VDC												114.8 deg F							
Modules total in array		4		5		6		7		8		10		12		14		15			
Modules per string		4		5		6		7		8		4		5		6		7		4	
Strings in Parallel		1		1		1		1		1		2		2		2		3		3	
Voltage @ MPT (STC)		168.0		210.0		252.0		294.0		336.0		168.0		210.0		252.0		294.0		336.0	
Vmppt @ max amb temp (30C, 86F amb)		147.4		184.3		221.1		258.0		294.9		147.4		184.3		221.1		258.0		294.9	
Vmppt @ max amb temp (35C, 95F amb)		144.5		180.7		216.8		253.0		289.1		144.5		180.7		216.8		253.0		289.1	
Vmppt @ max amb temp (40C, 104F amb)		141.7		177.1		212.5		248.0		283.5		141.7		177.1		212.5		248.0		283.5	
Vmppt @ max amb temp (45C, 113F amb)		138.8		173.5		208.2		242.9		277.6		138.8		173.5		208.2		242.9		277.6	
Vmppt @ max amb temp (50C, 122F amb)		136.0		170.0		204.0		237.9		271.8		136.0		170.0		204.0		237.9		271.8	
OCV @ 25 deg C cells		206.4		258.0		309.6		361.2		412.8		206.4		258.0		309.6		361.2		412.8	
OCV @ coldest temp (-40C, -40F amb)		243.6		304.5		365.4		426.3		487.2		243.6		304.5		365.4		426.3		487.2	
OCV @ coldest temp (-30C, -22F amb)		237.9		297.3		356.7		416.1		475.5		237.9		297.3		356.7		416.1		475.5	
OCV @ coldest temp (-20C, -4F amb)		232.1		290.2		348.2		406.2		464.2		232.1		290.2		348.2		406.2		464.2	
OCV @ coldest temp (-10C, 14F amb)		226.4		283.0		339.6		396.2		452.8		226.4		283.0		339.6		396.2		452.8	
OCV @ coldest temp (0C, 32F amb)		220.7		275.9		331.1		386.2		441.3		220.7		275.9		331.1		386.2		441.3	
Power @ MPT (STC)		860		1075		1290		1505		1720		860		1075		1290		1505		1720	
PTC AC system power rating		739		923		1108		1292		1477		739		923		1108		1292		1477	
Suggested Inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2000		PVI 2500		PVI 2500		PVI 2500		PVI 2500	

Module Manufacturer		Sanyo										Power @ MPT			210.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output				
Module Model		HIT Power 210N or HIP-210NKHAE										PTC Power Rating		194.8 W							
Voltage @ MPT (STC)		41.3 VDC										Temp Coeff of Vmppt		0.142 V/degC (Vmppt)							
Current @ MPT (STC)		5.09 ADC										Temp Coeff of Vocv		0.142 V/degC (Vocv)							
Current, short circuit		5.57 ADC										NOCT (nom. cell temp)		46 deg C							
OCV @ 25 deg C cells		50.9 VDC												114.8 deg F							
Modules total in array		4		5		6		7		8		10		12		14		15			
Modules per string		4		5		6		7		8		4		5		6		7		4	
Strings in Parallel		1		1		1		1		1		2		2		2		3		3	
Voltage @ MPT (STC)		165.2		206.5		247.8		289.1		330.4		165.2		206.5		247.8		289.1		330.4	
Vmppt @ max amb temp (30C, 86F amb)		144.8		180.9		217.1		253.3		289.5		144.8		180.9		217.1		253.3		289.5	
Vmppt @ max amb temp (35C, 95F amb)		141.9		177.4		212.9		248.3		283.7		141.9		177.4		212.9		248.3		283.7	
Vmppt @ max amb temp (40C, 104F amb)		139.1		173.8		208.6		243.4		278.1		139.1		173.8		208.6		243.4		278.1	
Vmppt @ max amb temp (45C, 113F amb)		136.2		170.3		204.3		238.4		272.5		136.2		170.3		204.3		238.4		272.5	
Vmppt @ max amb temp (50C, 122F amb)		133.4		166.7		200.1		233.4		266.7		133.4		166.7		200.1		233.4		266.7	
OCV @ 25 deg C cells		203.6		254.5		305.4		356.3		407.2		203.6		254.5		305.4		356.3		407.2	
OCV @ coldest temp (-40C, -40F amb)		240.5		300.7		360.8		420.9		481.0		240.5		300.7		360.8		420.9		481.0	
OCV @ coldest temp (-30C, -22F amb)		234.8		293.6		352.3		411.0		469.7		234.8		293.6		352.3		411.0		469.7	
OCV @ coldest temp (-20C, -4F amb)		229.2		286.5		343.7		401.0		458.3		229.2		286.5		343.7		401.0		458.3	
OCV @ coldest temp (-10C, 14F amb)		223.5		279.2		335.2		391.4		447.6		223.5		279.2		335.2		391.4		447.6	
OCV @ coldest temp (0C, 32F amb)		217.8		272.3		326.7		381.2		435.7		217.8		272.3		326.7		381.2		435.7	
Power @ MPT (STC)		840		1050		1260		1470		1680		840		1050		1260		1470		1680	
PTC AC system power rating		721		901		1081		1261		1442		721		901		1081		1261		1442	
Suggested Inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500		PVI 2500		PVI 2500		PVI 2500	

Module Manufacturer		Sanyo										Power @ MPT			205.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output				
Module Model		HIT Power 205N or HIP-205NKHAE										PTC Power Rating		190.1 W							
Voltage @ MPT (STC)		40.7 VDC										Temp Coeff of Vmppt		0.14 V/degC (Vmppt)							
Current @ MPT (STC)		5.05 ADC										Temp Coeff of Vocv		0.14 V/degC (Vocv)							
Current, short circuit		5.54 ADC										NOCT (nom. cell temp)		46 deg C							
OCV @ 25 deg C cells		50.3 VDC												114.8 deg F							
Modules total in array		4		5		6		7		8		10		12		14		15			
Modules per string		4		5		6		7		8		4		5		6		7		4	
Strings in Parallel		1		1		1		1		1		2		2		2		3		3	
Voltage @ MPT (STC)		162.8		203.5		244.2		284.9		325.6		162.8		203.5		244.2		284.9		325.6	
Vmppt @ max amb temp (30C, 86F amb)		142.6		178.3		214.0		249.6		285.2		142.6		178.3		214.0		249.6		285.2	
Vmppt @ max amb temp (35C, 95F amb)		139.8		174.8		209.8		244.7		279.6		139.8		174.8		209.8		244.7		279.6	
Vmppt @ max amb temp (40C, 104F amb)		137.0		171.3		205.6		239.9		274.2		137.0		171.3		205.6		239.9		274.2	
Vmppt @ max amb temp (45C, 113F amb)		134.2		167.8		201.4		234.9		269.1		134.2		167.8		201.4		234.9		269.1	
Vmppt @ max amb temp (50C, 122F amb)		131.4		164.3		197.2		230.0		263.7		131.4		164.3		197.2		230.0		263.7	
OCV @ 25 deg C cells		201.2		251.5		301.8		352.1		402.4		201.2		251.5		301.8		352.1		402.4	
OCV @ coldest temp (-40C, -40F amb)		237.6		297.0		356.4		415.8		475.2		237.6		297.0		356.4		415.8		475.2	
OCV @ coldest temp (-30C, -22F amb)		232.0		290.0		348.0		406.0		464.0		232.0		290.0		348.0		406.0		464.0	
OCV @ coldest temp (-20C, -4F amb)		226.4		283.0		339.6		396.2		452.8		226.4		283.0		339.6		396.2		452.8	
OCV @ coldest temp (-10C, 14F amb)		220.8		276.0		331.2		386.4		441.6		220.8		276.0		331.2		386.4		441.6	
OCV @ coldest temp (0C, 32F amb)		215.2		269.0		322.8		376.6		430.4		215.2		269.0		322.8		376.6		430.4	
Power @ MPT (STC)		820		1025		1230		1435		1640		820		1025		1230		1435		1640	
PTC AC system power rating		703		879		1055		1231		1407		703		879		1055		1			

Module Manufacturer	Sanyo											* - PTC Power Rating not available	
Module Model	HIT Power 200											For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)	55.8 VDC											orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current @ MPT (STC)	3.59 ADC											purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit	3.82 ADC												
OCV @ 25 deg C cells	68.7 VDC												
	Power @ MPT												
	PTC Power Rating												
	Temp Coeff of Vmpt												
	Temp Coeff of Vocv												
	NOCT (nom. cell temp)											116.6 deg F	
Modules total in array	3	4	5	6	8	10	9	12	15	12	16		
Modules per string	3	4	5	3	4	5	3	4	5	3	4		
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4		
Voltage @ MPT (STC)	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2		
Vmpt @ max amb temp (30C, 86F amb)	148.4	199.2	249.0	148.4	199.2	249.0	148.4	199.2	249.0	148.4	199.2		
Vmpt @ max amb temp (35C, 95F amb)	147.0	196.0	245.0	147.0	196.0	245.0	147.0	196.0	245.0	147.0	196.0		
Vmpt @ max amb temp (40C, 104F amb)	144.6	192.7	240.9	144.6	192.7	240.9	144.6	192.7	240.9	144.6	192.7		
Vmpt @ max amb temp (45C, 113F amb)	142.1	189.5	236.9	142.1	189.5	236.9	142.1	189.5	236.9	142.1	189.5		
Vmpt @ max amb temp (50C, 122F amb)	139.7	186.3	232.8	139.7	186.3	232.8	139.7	186.3	232.8	139.7	186.3		
OCV @ 25 deg C cells	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8		
OCV @ coldest temp (-40C, -40F amb)	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5		
OCV @ coldest temp (-30C, -22F amb)	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6		
OCV @ coldest temp (-20C, -4F amb)	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8		
OCV @ coldest temp (-10C, 14F amb)	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9		
OCV @ coldest temp (0C, 32F amb)	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0		
Power @ MPT (STC)	600	800	1000	1200	1600	2000	1800	2400	3000	2400	3200		
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	Sanyo											* - PTC Power Rating not available	
Module Model	HIP-200B19 (200W)											For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)	55.8 VDC											orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current @ MPT (STC)	3.59 ADC											purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit	3.83 ADC												
OCV @ 25 deg C cells	68.7 VDC												
	Power @ MPT												
	PTC Power Rating												
	Temp Coeff of Vmpt												
	Temp Coeff of Vocv												
	NOCT (nom. cell temp)											116.6 deg F	
Modules total in array	3	4	5	6	8	10	9	12	15	12	16		
Modules per string	3	4	5	3	4	5	3	4	5	3	4		
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4		
Voltage @ MPT (STC)	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2		
Vmpt @ max amb temp (30C, 86F amb)	148.3	197.7	247.2	148.3	197.7	247.2	148.3	197.7	247.2	148.3	197.7		
Vmpt @ max amb temp (35C, 95F amb)	145.7	194.3	242.9	145.7	194.3	242.9	145.7	194.3	242.9	145.7	194.3		
Vmpt @ max amb temp (40C, 104F amb)	143.1	190.9	238.6	143.1	190.9	238.6	143.1	190.9	238.6	143.1	190.9		
Vmpt @ max amb temp (45C, 113F amb)	140.6	187.4	234.3	140.6	187.4	234.3	140.6	187.4	234.3	140.6	187.4		
Vmpt @ max amb temp (50C, 122F amb)	138.0	184.0	230.0	138.0	184.0	230.0	138.0	184.0	230.0	138.0	184.0		
OCV @ 25 deg C cells	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8		
OCV @ coldest temp (-40C, -40F amb)	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5		
OCV @ coldest temp (-30C, -22F amb)	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6		
OCV @ coldest temp (-20C, -4F amb)	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8		
OCV @ coldest temp (-10C, 14F amb)	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9		
OCV @ coldest temp (0C, 32F amb)	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0		
Power @ MPT (STC)	600	800	1000	1200	1600	2000	1800	2400	3000	2400	3200		
PTC AC system power rating	519	692	865	1038	1385	1731	1566	2088	2688	2088	2784		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	Sanyo											* - PTC Power Rating not available	
Module Model	HIP-200B19 (200W)											For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)	55.8 VDC											orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current @ MPT (STC)	3.59 ADC											purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit	3.82 ADC												
OCV @ 25 deg C cells	68.7 VDC												
	Power @ MPT												
	PTC Power Rating												
	Temp Coeff of Vmpt												
	Temp Coeff of Vocv												
	NOCT (nom. cell temp)											111.56 deg F	
Modules total in array	3	4	5	6	8	10	9	12	15	12	16		
Modules per string	3	4	5	3	4	5	3	4	5	3	4		
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4		
Voltage @ MPT (STC)	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2	279.0	167.4	223.2		
Vmpt @ max amb temp (30C, 86F amb)	148.3	197.7	247.2	148.3	197.7	247.2	148.3	197.7	247.2	148.3	197.7		
Vmpt @ max amb temp (35C, 95F amb)	145.7	194.3	242.9	145.7	194.3	242.9	145.7	194.3	242.9	145.7	194.3		
Vmpt @ max amb temp (40C, 104F amb)	143.1	190.9	238.6	143.1	190.9	238.6	143.1	190.9	238.6	143.1	190.9		
Vmpt @ max amb temp (45C, 113F amb)	140.6	187.4	234.3	140.6	187.4	234.3	140.6	187.4	234.3	140.6	187.4		
Vmpt @ max amb temp (50C, 122F amb)	138.0	184.0	230.0	138.0	184.0	230.0	138.0	184.0	230.0	138.0	184.0		
OCV @ 25 deg C cells	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8	343.5	206.1	274.8		
OCV @ coldest temp (-40C, -40F amb)	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5	399.4	239.6	319.5		
OCV @ coldest temp (-30C, -22F amb)	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6	390.8	234.5	312.6		
OCV @ coldest temp (-20C, -4F amb)	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8	382.2	229.3	305.8		
OCV @ coldest temp (-10C, 14F amb)	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9	373.6	224.2	298.9		
OCV @ coldest temp (0C, 32F amb)	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0	365.0	219.0	292.0		
Power @ MPT (STC)	600	800	1000	1200	1600	2000	1800	2400	3000	2400	3200		
PTC AC system power rating	523	697	871	1045	1393	1742	1576	2101	2627	2101	2802		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer	Sanyo											* - PTC Power Rating not available	
Module Model	HIP-195B19											For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)	56.3 VDC											orange is acceptable but should be avoided where possible (inverter will hold at 125VDC).	
Current @ MPT (STC)	3.53 ADC											purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit	3.79 ADC												
OCV @ 25 deg C cells	68.1 VDC												
	Power @ MPT												
	PTC Power Rating												
	Temp Coeff of Vmpt												
	Temp Coeff of Vocv												
	NOCT (nom. cell temp)											116.6 deg F	
Modules total in array	3	4	5	6	8	10	9	12	15	12	16		
Modules per string	3	4	5	3	4	5	3	4	5	3	4		
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4		
Voltage @ MPT (STC)	165.9	221.2	276.5	165.9	221.2	276.5	165.9	221.2	276.5	165.9	221.2		
Vmpt @ max amb temp (30C, 86F amb)	147.6	196.8	246.0	147.6	196.8	246.0	147.6	196.8	246.0	147.6	196.8		
Vmpt @ max amb temp (35C, 95F amb)	145.1	193.5	241.9	145.1	193.5	241.9	145.1	193.5	241.9	145.1	193.5		
Vmpt @ max amb temp (40C, 104F amb)	142.6	190.2	237.7	142.6	190.2	237.7	142.6	190.2	237.7	142.6	190.2		
Vmpt @ max amb temp (45C, 113F amb)	140.2	186.9	233.6	140.2	186.9	233.6	140.2	186.9	233.6	140.2	186.9		
Vmpt @ max amb temp (50C, 122F amb)	137.7	183.6	229.5	137.7	183.6	229.5	137.7	183.6	229.5	137.7	183.6		
OCV @ 25 deg C cells	204.3	272.4	340.5	204.3	272.4	340.5	204.3	272.4	340.5	204.3	272.4		
OCV @ coldest temp (-40C, -40F amb)	237.5	316.6	395.8	237.5	316.6	395.8	237.5	316.6	395.8	237.5	316.6		
OCV @ coldest temp (-30C, -22F amb)	232.4	309.8	387.3	232.4	309.8	387.3	232.4	309.8	387.3	232.4	309.8		
OCV @ coldest temp (-20C, -4F amb)	227.3	303.0	378.8	227.3	303.0	378.8	227.3	303.0	378.8	227.3	303.0		
OCV @ coldest temp (-10C, 14F amb)	222.2	296.2	370.3	222.2	296.2	370.3	222.2	296.2	370.3	222.2	296.2		
OCV @ coldest temp (0C, 32F amb)	217.1	289.4	361.8	217.1	289.4	361.8	217.1	289.4	361.8	217.1	289.4		
Power @ MPT (STC)	585	780	975	1170	1560	1950	1755	2340	2925	2340	3120		
PTC AC system power rating	0												

Module Manufacturer	Sanyo											
Module Model	HIP-195BA3											
Voltage @ MPT (STC)	55.3 VDC	Power @ MPT										
Current @ MPT (STC)	3.53 ADC	PTC Power Rating										
Current, short circuit	3.79 ADC	183.5 W										
OCV @ 25 deg C cells	68.1 VDC	Temp Coeff of Vmp										
		0.165 V/degC (Vmp)										
		Temp Coeff of Voc										
		0.17 V/degC (Voc)										
		NOCT (nom. cell temp)										
		44.2 deg C										
		111.56 deg F										
Modules total in array	3	4	5	6	8	10	9	12	15	12	16	
Modules per string	3	4	5	3	4	5	3	4	5	3	4	
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4	
Voltage @ MPT (STC)	165.9	221.2	276.5	165.9	221.2	276.5	165.9	221.2	276.5	165.9	221.2	
Vmpt @ max amb temp (30C, 86F amb)	149.0	198.6	248.3	149.0	198.6	248.3	149.0	198.6	248.3	149.0	198.6	
Vmpt @ max amb temp (35C, 95F amb)	146.5	195.3	244.2	146.5	195.3	244.2	146.5	195.3	244.2	146.5	195.3	
Vmpt @ max amb temp (40C, 104F amb)	144.0	192.0	240.0	144.0	192.0	240.0	144.0	192.0	240.0	144.0	192.0	
Vmpt @ max amb temp (45C, 113F amb)	141.5	188.7	235.9	141.5	188.7	235.9	141.5	188.7	235.9	141.5	188.7	
Vmpt @ max amb temp (50C, 122F amb)	139.1	185.4	231.8	139.1	185.4	231.8	139.1	185.4	231.8	139.1	185.4	
OCV @ 25 deg C cells	240.3	272.4	340.5	204.3	272.4	340.5	204.3	272.4	340.5	204.3	272.4	
OCV @ coldest temp (-40C, -40F amb)	237.5	316.6	395.8	237.5	316.6	395.8	237.5	316.6	395.8	237.5	316.6	
OCV @ coldest temp (-30C, -22F amb)	232.4	309.8	387.3	232.4	309.8	387.3	232.4	309.8	387.3	232.4	309.8	
OCV @ coldest temp (-20C, -4F amb)	227.3	303.0	378.8	227.3	303.0	378.8	227.3	303.0	378.8	227.3	303.0	
OCV @ coldest temp (-10C, 14F amb)	222.2	296.2	370.3	222.2	296.2	370.3	222.2	296.2	370.3	222.2	296.2	
OCV @ coldest temp (0C, 32F amb)	217.1	289.4	361.8	217.1	289.4	361.8	217.1	289.4	361.8	217.1	289.4	
Power @ MPT (STC)	585	780	975	1170	1560	1950	1755	2340	2925	2340	3120	
PTC AC system power rating	509	679	849	1018	1358	1697	1536	2048	2560	2048	2730	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Sanyo											
Module Model	HIT Power 190											
Voltage @ MPT (STC)	54.8 VDC	Power @ MPT										
Current @ MPT (STC)	3.47 ADC	PTC Power Rating										
Current, short circuit	3.75 ADC	190.0 W										
OCV @ 25 deg C cells	67.5 VDC	Temp Coeff of Vmp										
		0.164 V/degC (Vmp)										
		Temp Coeff of Voc										
		0.169 V/degC (Voc)										
		NOCT (nom. cell temp)										
		47 deg C										
		116.6 deg F										
Modules total in array	3	4	5	6	8	10	9	12	15	12	16	
Modules per string	3	4	5	3	4	5	3	4	5	3	4	
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4	
Voltage @ MPT (STC)	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	
Vmpt @ max amb temp (30C, 86F amb)	146.2	194.9	243.7	146.2	194.9	243.7	146.2	194.9	243.7	146.2	194.9	
Vmpt @ max amb temp (35C, 95F amb)	143.7	191.6	239.6	143.7	191.6	239.6	143.7	191.6	239.6	143.7	191.6	
Vmpt @ max amb temp (40C, 104F amb)	141.3	188.4	235.5	141.3	188.4	235.5	141.3	188.4	235.5	141.3	188.4	
Vmpt @ max amb temp (45C, 113F amb)	138.8	185.1	231.4	138.8	185.1	231.4	138.8	185.1	231.4	138.8	185.1	
Vmpt @ max amb temp (50C, 122F amb)	136.4	181.8	227.3	136.4	181.8	227.3	136.4	181.8	227.3	136.4	181.8	
OCV @ 25 deg C cells	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	
OCV @ coldest temp (-40C, -40F amb)	235.5	313.9	392.4	235.5	313.9	392.4	235.5	313.9	392.4	235.5	313.9	
OCV @ coldest temp (-30C, -22F amb)	230.4	307.0	384.0	230.4	307.0	384.0	230.4	307.0	384.0	230.4	307.0	
OCV @ coldest temp (-20C, -4F amb)	225.3	300.4	375.5	225.3	300.4	375.5	225.3	300.4	375.5	225.3	300.4	
OCV @ coldest temp (-10C, 14F amb)	220.2	293.7	367.1	220.2	293.7	367.1	220.2	293.7	367.1	220.2	293.7	
OCV @ coldest temp (0C, 32F amb)	215.2	286.9	358.6	215.2	286.9	358.6	215.2	286.9	358.6	215.2	286.9	
Power @ MPT (STC)	570	760	950	1140	1520	1900	1710	2280	2850	2280	3040	
PTC AC system power rating	496	661	826	992	1322	1653	1496	1994	2493	1994	2659	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

* - PTC Power Rating not available
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Sanyo											
Module Model	HIP-190BA (or BA1-5)											
Voltage @ MPT (STC)	54.8 VDC	Power @ MPT										
Current @ MPT (STC)	3.47 ADC	PTC Power Rating										
Current, short circuit	3.75 ADC	190.0 W										
OCV @ 25 deg C cells	67.5 VDC	Temp Coeff of Vmp										
		0.164 V/degC (Vmp)										
		Temp Coeff of Voc										
		0.202 V/degC (Voc)										
		NOCT (nom. cell temp)										
		44.2 deg C										
		111.56 deg F										
Modules total in array	3	4	5	6	8	10	9	12	15	12	16	
Modules per string	3	4	5	3	4	5	3	4	5	3	4	
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4	
Voltage @ MPT (STC)	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	
Vmpt @ max amb temp (30C, 86F amb)	147.6	196.8	246.0	147.6	196.8	246.0	147.6	196.8	246.0	147.6	196.8	
Vmpt @ max amb temp (35C, 95F amb)	145.1	193.5	241.9	145.1	193.5	241.9	145.1	193.5	241.9	145.1	193.5	
Vmpt @ max amb temp (40C, 104F amb)	142.7	190.2	237.8	142.7	190.2	237.8	142.7	190.2	237.8	142.7	190.2	
Vmpt @ max amb temp (45C, 113F amb)	140.2	186.9	233.7	140.2	186.9	233.7	140.2	186.9	233.7	140.2	186.9	
Vmpt @ max amb temp (50C, 122F amb)	137.7	183.6	229.6	137.7	183.6	229.6	137.7	183.6	229.6	137.7	183.6	
OCV @ 25 deg C cells	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	
OCV @ coldest temp (-40C, -40F amb)	241.9	322.5	403.2	241.9	322.5	403.2	241.9	322.5	403.2	241.9	322.5	
OCV @ coldest temp (-30C, -22F amb)	236.8	314.4	393.1	236.8	314.4	393.1	236.8	314.4	393.1	236.8	314.4	
OCV @ coldest temp (-20C, -4F amb)	229.8	306.4	383.0	229.8	306.4	383.0	229.8	306.4	383.0	229.8	306.4	
OCV @ coldest temp (-10C, 14F amb)	223.7	297.9	372.9	223.7	297.9	372.9	223.7	297.9	372.9	223.7	297.9	
OCV @ coldest temp (0C, 32F amb)	217.7	290.2	362.8	217.7	290.2	362.8	217.7	290.2	362.8	217.7	290.2	
Power @ MPT (STC)	570	760	950	1140	1520	1900	1710	2280	2850	2280	3040	
PTC AC system power rating	496	661	826	992	1322	1653	1496	1994	2493	1994	2659	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Sanyo											
Module Model	HIP-186DA3											
Voltage @ MPT (STC)	54.8 VDC	Power @ MPT										
Current @ MPT (STC)	3.4 ADC	PTC Power Rating										
Current, short circuit	3.68 ADC	186.0 W										
OCV @ 25 deg C cells	67.5 VDC	Temp Coeff of Vmp										
		0.079 V/degC (Vmp)										
		Temp Coeff of Voc										
		0.179 V/degC (Voc)										
		NOCT (nom. cell temp)										
		46.6 deg C										
		115.88 deg F										
Modules total in array	3	4	5	6	8	10	9	12	15	12	16	
Modules per string	3	4	5	3	4	5	3	4	5	3	4	
Strings in Parallel	1	1	1	2	2	2	3	3	3	4	4	
Voltage @ MPT (STC)	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	274.0	164.4	219.2	
Vmpt @ max amb temp (30C, 86F amb)	155.7	207.6	259.5	155.7	207.6	259.5	155.7	207.6	259.5	155.7	207.6	
Vmpt @ max amb temp (35C, 95F amb)	154.5	206.1	257.6	154.5	206.1	257.6	154.5	206.1	257.6	154.5	206.1	
Vmpt @ max amb temp (40C, 104F amb)	153.4	204.5	255.6	153.4	204.5	255.6	153.4	204.5	255.6	153.4	204.5	
Vmpt @ max amb temp (45C, 113F amb)	152.2	202.9	253.6	152.2	202.9	253.6	152.2	202.9	253.6	152.2	202.9	
Vmpt @ max amb temp (50C, 122F amb)	151.0	201.3	251.6	151.0	201.3	251.6	151.0	201.3	251.6	151.0	201.3	
OCV @ 25 deg C cells	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	337.5	202.5	270.0	
OCV @ coldest temp (-40C, -40F amb)	217.9	290.5	363.2	217.9	290.5	363.2	217.9	290.5	363.2	217.9	290.5	
OCV @ coldest temp (-30C, -22F amb)	215.5	287.4	359.2	215.5	287.4	359.2	215.5	287.4	359.2	215.5	287.4	
OCV @ coldest temp (-20C, -4F amb)	213.2	284.2	355.3	213.2	284.2	355.3	213.2	284.2	355.3	213.2	284.2	
OCV @ coldest temp (-10C, 14F amb)	210.8	281.1	351.3	210.8	281.1	351.3	210.8	281.1	351.3	210.8	281.1	
OCV @ coldest temp (0C, 32F amb)	208.4	277.9	347.4	208.4	277.9	347.4	208.4	277.9	347.4	208.4	277.9	
Power @ MPT (STC)	550	744	930	1116	1488	1860	1674	2232	2790	2232	2976	
PTC AC system power rating	481	642	802	962	1283	1604	1451	1935	2419	1935		

Module Manufacturer		Schott Solar		Power @ MPT		320.0 W			
Module Model		ASE-300-DGF/50-320		PTC Power Rating		287.8 W			
Voltage @ MPT (STC)		51.6 VDC		Temp Coeff of Vmp		0.243 V/degC		(Vmp)	
Current @ MPT (STC)		6.2 ADC		Temp Coeff of Voc		0.243 V/degC		(Voc)	
Current, short circuit		6.8 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		64.4 VDC							
Modules total in array	3	4	5	6	8	10	9		
Modules per string	3	4	5	6	3	4	5		
Strings in Parallel	1	1	1	1	2	2	2		
Voltage @ MPT (STC)	154.8	206.4	258.0	154.8	206.4	258.0	154.8		
Vmp @ max amb temp (30C, 86F amb)	123.3	172.4	215.5	123.3	172.4	215.5	123.3		
Vmp @ max amb temp (35C, 95F amb)	125.6	167.5	209.4	125.6	167.5	209.4	125.6		
Vmp @ max amb temp (40C, 104F amb)	122.0	162.7	203.3	122.0	162.7	203.3	122.0		
Vmp @ max amb temp (45C, 113F amb)	118.4	157.8	197.3	118.4	157.8	197.3	118.4		
Vmp @ max amb temp (50C, 122F amb)	114.7	152.9	191.2	114.7	152.9	191.2	114.7		
OCV @ 25 deg C cells	193.2	257.6	322.0	193.2	257.6	322.0	193.2		
OCV @ coldest temp (-40C, -40F amb)	240.6	320.8	401.0	240.6	320.8	401.0	240.6		
OCV @ coldest temp (-30C, -22F amb)	233.3	311.1	388.8	233.3	311.1	388.8	233.3		
OCV @ coldest temp (-20C, -4F amb)	226.0	301.3	376.7	226.0	301.3	376.7	226.0		
OCV @ coldest temp (-10C, 14F amb)	218.7	291.6	364.5	218.7	291.6	364.5	218.7		
OCV @ coldest temp (0C, 32F amb)	211.4	281.9	352.4	211.4	281.9	352.4	211.4		
Power @ MPT (STC)	960	1280	1600	1920	2560	3200	2880		
PTC AC system power rating	799	1065	1331	1597	2130	2677	2409		
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500		

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Schott Solar		Power @ MPT		315.0 W			
Module Model		ASE-300-DGF/50 (315W, 36V)		PTC Power Rating		282.8 W			
Voltage @ MPT (STC)		51.5 VDC		Temp Coeff of Vmp		0.228 V/degC		(Vmp)	
Current @ MPT (STC)		6.1 ADC		Temp Coeff of Voc		0.228 V/degC		(Voc)	
Current, short circuit		6.6 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		60 VDC							
Modules total in array	3	4	5	6	6	8	10		
Modules per string	3	4	5	6	3	4	5		
Strings in Parallel	1	1	1	1	2	2	2		
Voltage @ MPT (STC)	154.5	206.0	257.5	309.0	154.5	206.0	257.5		
Vmp @ max amb temp (30C, 86F amb)	130.6	174.1	217.6	261.1	130.6	174.1	217.6		
Vmp @ max amb temp (35C, 95F amb)	127.1	169.5	211.9	254.3	127.1	169.5	211.9		
Vmp @ max amb temp (40C, 104F amb)	123.7	165.0	206.2	247.4	123.7	165.0	206.2		
Vmp @ max amb temp (45C, 113F amb)	120.3	160.4	200.5	240.6	120.3	160.4	200.5		
Vmp @ max amb temp (50C, 122F amb)	116.9	155.8	194.8	233.8	116.9	155.8	194.8		
OCV @ 25 deg C cells	180.0	240.0	300.0	360.0	180.0	240.0	300.0		
OCV @ coldest temp (-40C, -40F amb)	224.5	299.3	374.1	448.9	224.5	299.3	374.1		
OCV @ coldest temp (-30C, -22F amb)	217.6	290.2	362.7	435.2	217.6	290.2	362.7		
OCV @ coldest temp (-20C, -4F amb)	210.8	281.0	351.3	421.6	210.8	281.0	351.3		
OCV @ coldest temp (-10C, 14F amb)	203.9	271.9	339.9	407.9	203.9	271.9	339.9		
OCV @ coldest temp (0C, 32F amb)	197.1	262.8	328.5	394.2	197.1	262.8	328.5		
Power @ MPT (STC)	945	1260	1575	1890	1890	2520	3150		
PTC AC system power rating	785	1046	1308	1598	1570	2093	2538		
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500		

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Schott Solar		Power @ MPT		310.0 W			
Module Model		ASE-300-DGF/50-310		PTC Power Rating		278.5 W			
Voltage @ MPT (STC)		51.1 VDC		Temp Coeff of Vmp		0.24 V/degC		(Vmp)	
Current @ MPT (STC)		6.1 ADC		Temp Coeff of Voc		0.24 V/degC		(Voc)	
Current, short circuit		6.5 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		63.8 VDC							
Modules total in array	3	4	5	6	8	10	9		
Modules per string	3	4	5	6	3	4	5		
Strings in Parallel	1	1	1	1	2	2	2		
Voltage @ MPT (STC)	153.3	204.4	255.5	153.3	204.4	255.5	153.3		
Vmp @ max amb temp (30C, 86F amb)	128.1	170.8	213.5	128.1	170.8	213.5	128.1		
Vmp @ max amb temp (35C, 95F amb)	124.5	166.0	207.5	124.5	166.0	207.5	124.5		
Vmp @ max amb temp (40C, 104F amb)	120.9	161.2	201.5	120.9	161.2	201.5	120.9		
Vmp @ max amb temp (45C, 113F amb)	117.3	156.4	195.5	117.3	156.4	195.5	117.3		
Vmp @ max amb temp (50C, 122F amb)	113.7	151.6	189.5	113.7	151.6	189.5	113.7		
OCV @ 25 deg C cells	191.4	255.2	319.0	191.4	255.2	319.0	191.4		
OCV @ coldest temp (-40C, -40F amb)	238.2	317.6	397.0	238.2	317.6	397.0	238.2		
OCV @ coldest temp (-30C, -22F amb)	231.0	308.0	385.0	231.0	308.0	385.0	231.0		
OCV @ coldest temp (-20C, -4F amb)	223.8	298.4	373.0	223.8	298.4	373.0	223.8		
OCV @ coldest temp (-10C, 14F amb)	216.6	288.8	361.0	216.6	288.8	361.0	216.6		
OCV @ coldest temp (0C, 32F amb)	209.4	279.2	349.0	209.4	279.2	349.0	209.4		
Power @ MPT (STC)	930	1240	1550	1860	2480	3100	2790		
PTC AC system power rating	773	1030	1288	1546	2061	2590	2331		
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Schott Solar		Power @ MPT		300.0 W			
Module Model		ASE-300-DGF/50 (300W, 36V)		PTC Power Rating		269.1 W			
Voltage @ MPT (STC)		51 VDC		Temp Coeff of Vmp		0.228 V/degC		(Vmp)	
Current @ MPT (STC)		5.9 ADC		Temp Coeff of Voc		0.228 V/degC		(Voc)	
Current, short circuit		6.5 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		60 VDC							
Modules total in array	3	4	5	6	6	8	10	12	
Modules per string	3	4	5	6	3	4	5	6	
Strings in Parallel	1	1	1	1	2	2	2	2	
Voltage @ MPT (STC)	153.0	204.0	255.0	306.0	153.0	204.0	255.0	306.0	
Vmp @ max amb temp (30C, 86F amb)	129.1	172.1	215.1	258.1	129.1	172.1	215.1	258.1	
Vmp @ max amb temp (35C, 95F amb)	125.6	167.5	209.4	251.3	125.6	167.5	209.4	251.3	
Vmp @ max amb temp (40C, 104F amb)	122.2	163.0	203.7	244.4	122.2	163.0	203.7	244.4	
Vmp @ max amb temp (45C, 113F amb)	118.8	158.4	198.0	237.6	118.8	158.4	198.0	237.6	
Vmp @ max amb temp (50C, 122F amb)	115.4	153.8	192.3	230.8	115.4	153.8	192.3	230.8	
OCV @ 25 deg C cells	180.0	240.0	300.0	360.0	180.0	240.0	300.0	360.0	
OCV @ coldest temp (-40C, -40F amb)	224.5	299.3	374.1	448.9	224.5	299.3	374.1	448.9	
OCV @ coldest temp (-30C, -22F amb)	217.6	290.2	362.7	435.2	217.6	290.2	362.7	435.2	
OCV @ coldest temp (-20C, -4F amb)	210.8	281.0	351.3	421.6	210.8	281.0	351.3	421.6	
OCV @ coldest temp (-10C, 14F amb)	203.9	271.9	339.9	407.9	203.9	271.9	339.9	407.9	
OCV @ coldest temp (0C, 32F amb)	197.1	262.8	328.5	394.2	197.1	262.8	328.5	394.2	
Power @ MPT (STC)	900	1200	1500	1800	1800	2400	3000	3600	
PTC AC system power rating	747	996	1245	1494	1494	1991	2503	3003	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Schott Solar		Power @ MPT		285.0 W			
Module Model		ASE-300-DGF/50 (285W, 36V)		PTC Power Rating		255.4 W			
Voltage @ MPT (STC)		50 VDC		Temp Coeff of Vmp		0.228 V/degC		(Vmp)	
Current @ MPT (STC)		5.7 ADC		Temp Coeff of Voc		0.228 V/degC		(Voc)	
Current, short circuit		6.3 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		60 VDC							
Modules total in array	3	4	5	6	6	8	10	12	
Modules per string	3	4	5	6	3	4	5	6	
Strings in Parallel	1	1	1	1	2	2	2	2	
Voltage @ MPT (STC)	150.0	200.0	250.0	300.0	150.0	200.0	250.0	300.0	
Vmp @ max amb temp (30C, 86F amb)	126.1	168.1	210.1	252.1	126.1	168.1	210.1	252.1	
Vmp @ max amb temp (35C, 95F amb)	122.6	163.5	204.4	245.3	122.6	163.5	204.4	245.3	
Vmp @ max amb temp (40C, 104F amb)	119.2	159.0	198.7	238.4	119.2	159.0	198.7	238.4	
Vmp @ max amb temp (45C, 113F amb)	115.8	154.4	193.0	231.6	115.8	154.4	193.0	231.6	
Vmp @ max amb temp (50C, 122F amb)	112.4	149.8	187.3	224.8	112.4	149.8	187.3	224.8	
OCV @ 25 deg C cells	180.0	240.0	300.0	360.0	180.0	240.0	300.0	360.0	
OCV @ coldest temp (-40C, -40F amb)	224.5	299.3	374.1	448.9	224.5	299.3	374.1	448.9	
OCV @ coldest temp (-30C, -22F amb)	217.6	290.2	362.7	435.2	217.6	290.2	362.7	435.2	
OCV @ coldest temp (-20C, -4F amb)	210.8	281.0	351.3	421.6	210.8	281.0	351.3	421.6	
OCV @ coldest temp (-10C, 14F amb)	203.9	271.9	339.9	407.9	203.9	271.9	339.9	407.9	
OCV @ coldest temp (0C, 32F amb)	197.1	262.8	328.5	394.2	197.1	262.8	328.5	394.2	
Power @ MPT (STC)	855	1140	1425	1710	1710	2280	2850	3420	
PTC AC system power rating	709	945	1181	1417	1417	1890	2375	2850	
S									

Module Manufacturer		Schott Solar								Power @ MPP		175.0 W					
Module Model		SAPC-175								PTC Power Rating		154.4 W					
Voltage @ MPP (STC)		35.4 VDC								Temp Coeff of Vmp		0.006 V/dgC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPP (STC)		4.95 ADC								Temp Coeff of Voc		0.084 V/dgC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit		5.55 ADC								NOCT (nom. cell temp)		47.5 deg C		117.5 deg F			
OCV @ 25 deg C cells		44.4 VDC															
Modules total in array		5	6	7	8	10	12	14	16	15	18						
Modules per string		5	6	7	8	5	6	7	8	5	6						
Strings in Parallel		1	1	1	1	2	2	2	2	3	3						
Voltage @ MPT (STC)		177.0	212.4	247.8	283.2	177.0	212.4	247.8	283.2	177.0	212.4						
Vmp @ max amb temp (30C, 86F amb)		175.9	211.1	246.2	281.4	175.9	211.1	246.2	281.4	175.9	211.1						
Vmp @ max amb temp (35C, 95F amb)		175.7	210.9	246.0	281.2	175.7	210.9	246.0	281.2	175.7	210.9						
Vmp @ max amb temp (40C, 104F amb)		175.6	210.7	245.8	280.9	175.6	210.7	245.8	280.9	175.6	210.7						
Vmp @ max amb temp (45C, 113F amb)		175.4	210.5	245.6	280.7	175.4	210.5	245.6	280.7	175.4	210.5						
Vmp @ max amb temp (50C, 122F amb)		175.3	210.3	245.4	280.4	175.3	210.3	245.4	280.4	175.3	210.3						
OCV @ 25 deg C cells		222.0	266.4	310.8	355.2	222.0	266.4	310.8	355.2	222.0	266.4						
OCV @ coldest temp (-40C, -40F amb)		249.3	299.2	349.0	398.9	249.3	299.2	349.0	398.9	249.3	299.2						
OCV @ coldest temp (-30C, -22F amb)		245.1	294.1	343.1	392.2	245.1	294.1	343.1	392.2	245.1	294.1						
OCV @ coldest temp (-20C, -4F amb)		240.9	289.1	337.3	385.4	240.9	289.1	337.3	385.4	240.9	289.1						
OCV @ coldest temp (-10C, 14F amb)		236.7	284.0	331.4	378.7	236.7	284.0	331.4	378.7	236.7	284.0						
OCV @ coldest temp (0C, 32F amb)		232.5	279.0	325.5	372.0	232.5	279.0	325.5	372.0	232.5	279.0						
Power @ MPT (STC)		875	1050	1225	1400	1750	2100	2450	2800	2625	3150						
PTC AC system power rating		714	857	1000	1143	1428	1714	2010	2297	2154	2585						
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		Schuco								Power @ MPT		210.0 W					
Module Model		SPV 210 SMAU-1								PTC Power Rating		189.9 W					
Voltage @ MPT (STC)		26.3 VDC								Temp Coeff of Vmp		0.112 V/dgC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPT (STC)		7.98 ADC								Temp Coeff of Voc		0.112 V/dgC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit		8.35 ADC								NOCT (nom. cell temp)		43 deg C		109.4 deg F			
OCV @ 25 deg C cells		33.68 VDC															
Modules total in array		6	7	8	9	10	11	12	14	16							
Modules per string		6	7	8	9	10	11	6	7	8							
Strings in Parallel		1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)		157.8	184.1	210.4	236.7	263.0	289.3	157.8	184.1	210.4							
Vmp @ max amb temp (30C, 86F amb)		135.6	158.2	180.8	203.4	226.0	248.6	135.6	158.2	180.8							
Vmp @ max amb temp (35C, 95F amb)		132.3	154.3	176.4	198.4	220.4	242.5	132.3	154.3	176.4							
Vmp @ max amb temp (40C, 104F amb)		129.9	150.4	171.9	193.4	214.8	236.3	129.9	150.4	171.9							
Vmp @ max amb temp (45C, 113F amb)		125.5	146.5	167.4	188.3	209.2	230.2	125.5	146.5	167.4							
Vmp @ max amb temp (50C, 122F amb)		122.2	142.5	162.9	183.3	203.6	224.0	122.2	142.5	162.9							
OCV @ 25 deg C cells		202.1	235.8	269.4	303.1	336.8	370.5	202.1	235.8	269.4							
OCV @ coldest temp (-40C, -40F amb)		245.8	286.7	327.7	368.6	409.6	450.5	245.8	286.7	327.7							
OCV @ coldest temp (-30C, -22F amb)		239.0	278.9	318.7	358.6	398.4	438.2	239.0	278.9	318.7							
OCV @ coldest temp (-20C, -4F amb)		232.3	271.0	309.8	348.5	387.2	425.9	232.3	271.0	309.8							
OCV @ coldest temp (-10C, 14F amb)		225.6	263.2	300.8	338.4	376.0	413.6	225.6	263.2	300.8							
OCV @ coldest temp (0C, 32F amb)		218.9	255.4	291.8	328.3	364.8	401.3	218.9	255.4	291.8							
Power @ MPT (STC)		1260	1470	1680	1890	2100	2310	2520	2940	3360							
PTC AC system power rating		1054	1220	1405	1591	1767	1932	2119	2472	2826							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Schuco								Power @ MPT		200.0 W					
Module Model		SPV 200 SMAU-1								PTC Power Rating		180.7 W					
Voltage @ MPT (STC)		25.38 VDC								Temp Coeff of Vmp		0.111 V/dgC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current @ MPT (STC)		7.89 ADC								Temp Coeff of Voc		0.111 V/dgC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current, short circuit		8.24 ADC								NOCT (nom. cell temp)		43 deg C		109.4 deg F			
OCV @ 25 deg C cells		33.53 VDC															
Modules total in array		6	7	8	9	10	11	12	14	16							
Modules per string		6	7	8	9	10	11	6	7	8							
Strings in Parallel		1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)		152.3	177.7	203.0	228.4	253.8	279.0	152.3	177.7	203.0							
Vmp @ max amb temp (30C, 86F amb)		130.3	152.0	173.7	195.5	217.2	238.9	130.3	152.0	173.7							
Vmp @ max amb temp (35C, 95F amb)		127.0	148.1	169.3	190.5	211.6	232.8	127.0	148.1	169.3							
Vmp @ max amb temp (40C, 104F amb)		123.6	144.2	164.9	185.5	206.1	226.7	123.6	144.2	164.9							
Vmp @ max amb temp (45C, 113F amb)		120.3	140.4	160.4	180.5	200.5	220.6	120.3	140.4	160.4							
Vmp @ max amb temp (50C, 122F amb)		117.0	136.5	156.0	175.5	195.0	214.5	117.0	136.5	156.0							
OCV @ 25 deg C cells		201.2	234.7	268.2	301.8	335.3	368.8	201.2	234.7	268.2							
OCV @ coldest temp (-40C, -40F amb)		244.5	285.2	326.0	366.7	407.5	448.2	244.5	285.2	326.0							
OCV @ coldest temp (-30C, -22F amb)		237.8	277.4	317.1	356.7	396.4	436.0	237.8	277.4	317.1							
OCV @ coldest temp (-20C, -4F amb)		231.2	269.7	308.2	346.7	385.3	423.8	231.2	269.7	308.2							
OCV @ coldest temp (-10C, 14F amb)		224.5	267.6	305.7	343.8	381.9	419.9	224.5	267.6	305.7							
OCV @ coldest temp (0C, 32F amb)		217.8	254.1	290.4	326.7	363.1	399.4	217.8	254.1	290.4							
Power @ MPT (STC)		1200	1400	1600	1800	2000	2200	2400	2800	3200							
PTC AC system power rating		1003	1170	1337	1504	1671	1839	2017	2353	2689							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Schuco								Power @ MPT		180.0 W				*-Temp Coeff of Vmp/Voc are estimated	
Module Model		S 170-SPU-4								PTC Power Rating		161.2 W				For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)		23.7 VDC								Temp Coeff of Vmp		0.114 V/dgC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 225VDC), purple is OK but indicates inverter will limit to 15 kW AC continuous output	
Current @ MPT (STC)		7.45 ADC								Temp Coeff of Voc		0.105 V/dgC		(Voc)		pink is acceptable but should be avoided where possible (inverter will not run above 450VDC)	
Current, short circuit		8.03 ADC								NOCT (nom. cell temp)		46.25 deg C		115.25 deg F			
OCV @ 25 deg C cells		30.4 VDC															
Modules total in array		7	8	9	10	11	12	13	14	16	18						
Modules per string		7	8	9	10	11	12	13	7	8	9						
Strings in Parallel		1	1	1	1	1	1	1	2	2	2						
Voltage @ MPT (STC)		169.4	193.6	217.8	242.0	266.2	290.4	314.6	169.4	193.6	217.8						
Vmp @ max amb temp (30C, 86F amb)		140.5	160.5	180.6	200.7	220.7	240.8	260.9	140.5	160.5	180.6						
Vmp @ max amb temp (35C, 95F amb)		136.5	156.0	175.5	195.0	214.5	234.0	253.5	136.5	156.0	175.5						
Vmp @ max amb temp (40C, 104F amb)		132.5	151.4	170.3	189.3	208.2	227.1	246.1	132.5	151.4	170.3						
Vmp @ max amb temp (45C, 113F amb)		128.5	146.9	165.2	183.6	201.9	220.3	238.6	128.5	146.9	165.2						
Vmp @ max amb temp (50C, 122F amb)		124.5	142.3	160.1	177.9	195.7	213.5	231.2	124.5	142.3	160.1						
OCV @ 25 deg C cells		212.8	245.2	277.6	310.0	342.4	374.8	398.2	212.8	245.2	277.6						
OCV @ coldest temp (-40C, -40F amb)		260.6	297.8	335.0	372.3	409.5	446.7	483.9	260.6	297.8	335.0						
OCV @ coldest temp (-30C, -22F amb)		253.2	289.4	325.6	361.8	397.9	434.1	470.3	253.2	289.4	325.6						
OCV @ coldest temp (-20C, -4F amb)		245.9	281.0	316.1	351.3	386.4	421.5	456.6	245.9	281.0	316.1						
OCV @ coldest temp (-10C, 14F amb)		238.5	272.6	306.7	340.8	374.9	408.9	443.0	238.5	272.6	306.7						
OCV @ coldest temp (0C, 32F amb)		231.2	264.2	297.2	330.3	363.3	396.3	429.3	231.2	264.2	297.2						
Power @ MPT (STC)		1260	1440	1620	1800	1980	2160	2340	2520	2880	3240						
PTC AC system power rating		1044	1193	1342	1491	1640	1789	1949	2099	2399	2698						
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		Schuco								Power @ MPT		170.0 W				*-Temp Coeff of Vmp/Voc are estimated	
Module Model		S 170-SPU-4								PTC Power Rating		152.1 W				For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPT (STC)		23.7 VDC								Temp Coeff of Vmp		0.114 V/dgC		(Vmp)		orange is acceptable but should be avoided where possible (inverter will hold at 225VDC), purple is OK but indicates inverter will limit to 15 kW AC continuous output	
Current @ MPT (STC)		7.19 ADC								Temp Coeff of Voc		0.105 V/dgC		(Voc)		pink is acceptable but should be avoided where possible (inverter will not run above 450VDC)	
Current, short circuit		7.83 ADC								NOCT (nom. cell temp)		46.25 deg C		115.25 deg F			
OCV @ 25 deg C cells		29.9 VDC															
Modules total in array		7	8	9	10	11	12	14	16	18							
Modules per string		7	8	9	10	11	12	7	8	9							
Strings in Parallel		1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)		165.9	189.6	213.3	237.0	260.7	284.4	165.9	189.6	213.3							
Vmp @ max amb temp (30C, 86F amb)																	

Module Manufacturer	Schuco				Power @ MPT				170.0 W									
Module Model	S 170-SPU				PTC Power Rating				152.5 W									
Voltage @ MPT (STC)	24.2 VDC				Temp Coeff of Vmp				0.114 V/degC	(Vmp)								
Current @ MPT (STC)	6.83 ADC				Temp Coeff of Voc				0.105 V/degC	(Voc)								
Current, short circuit	7.36 ADC				NOCT (nom. cell temp)				46.2 deg C		115.16 deg F							
OCV @ 25 deg C cells	30.4 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20								
Modules per string	7	8	9	10	11	12	7	8	9	10								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	163.4	193.6	217.8	242.0	266.2	290.4	163.4	193.6	217.8	242.0								
Vmpt @ max amb temp (30C, 86F amb)	140.5	160.6	180.7	200.7	220.8	240.9	140.5	160.6	180.7	200.7								
Vmpt @ max amb temp (35C, 95F amb)	136.5	156.0	175.5	195.0	214.5	234.0	136.5	156.0	175.5	195.0								
Vmpt @ max amb temp (40C, 104F amb)	132.5	151.5	170.4	189.3	208.3	227.2	132.5	151.5	170.4	189.3								
Vmpt @ max amb temp (45C, 113F amb)	128.5	146.9	165.3	183.6	202.0	220.4	128.5	146.9	165.3	183.6								
Vmpt @ max amb temp (50C, 122F amb)	124.5	142.3	160.1	177.9	195.7	213.5	124.5	142.3	160.1	177.9								
OCV @ 25 deg C cells	212.8	243.2	273.6	304.0	334.4	364.8	212.8	243.2	273.6	304.0								
OCV @ coldest temp (-40C, -40F amb)	260.6	297.8	335.0	372.3	409.5	446.7	260.6	297.8	335.0	372.3								
OCV @ coldest temp (-30C, -22F amb)	253.2	289.4	325.6	361.8	397.9	434.1	253.2	289.4	325.6	361.8								
OCV @ coldest temp (-20C, -4F amb)	245.9	281.0	316.1	351.3	386.4	421.5	245.9	281.0	316.1	351.3								
OCV @ coldest temp (-10C, 14F amb)	238.5	272.6	306.7	340.8	374.8	408.9	238.5	272.6	306.7	340.8								
OCV @ coldest temp (0C, 32F amb)	231.2	264.2	297.2	330.3	363.3	396.3	231.2	264.2	297.2	330.3								
Power @ MPT (STC)	1190	1360	1530	1700	1870	2040	2380	2720	3060	3400								
PTC AC system power rating	987	1129	1270	1411	1552	1693	1986	2269	2553	2837								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Schuco				Power @ MPT				167.5 W									
Module Model	S 165-SPU-4				PTC Power Rating				147.5 W									
Voltage @ MPT (STC)	23.4 VDC				Temp Coeff of Vmp				0.114 V/degC	(Vmp)								
Current @ MPT (STC)	7.06 ADC				Temp Coeff of Voc				0.105 V/degC	(Voc)								
Current, short circuit	7.73 ADC				NOCT (nom. cell temp)				46.2 deg C		115.16 deg F							
OCV @ 25 deg C cells	29.7 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20								
Modules per string	7	8	9	10	11	12	7	8	9	10								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	163.8	187.2	210.6	234.0	257.4	280.8	163.8	187.2	210.6	234.0								
Vmpt @ max amb temp (30C, 86F amb)	134.9	154.2	173.5	192.7	212.0	231.3	134.9	154.2	173.5	192.7								
Vmpt @ max amb temp (35C, 95F amb)	130.9	149.6	168.3	187.0	205.7	224.4	130.9	149.6	168.3	187.0								
Vmpt @ max amb temp (40C, 104F amb)	126.9	145.1	163.2	181.3	199.5	217.6	126.9	145.1	163.2	181.3								
Vmpt @ max amb temp (45C, 113F amb)	122.9	140.5	158.1	175.6	193.2	210.8	122.9	140.5	158.1	175.6								
Vmpt @ max amb temp (50C, 122F amb)	119.0	135.9	152.9	169.9	186.9	203.9	119.0	135.9	152.9	169.9								
OCV @ 25 deg C cells	207.9	237.6	267.3	297.0	326.7	356.4	207.9	237.6	267.3	297.0								
OCV @ coldest temp (-40C, -40F amb)	257.7	292.2	326.7	361.3	395.8	430.3	257.7	292.2	326.7	361.3								
OCV @ coldest temp (-30C, -22F amb)	249.3	283.8	318.3	352.8	387.3	421.8	249.3	283.8	318.3	352.8								
OCV @ coldest temp (-20C, -4F amb)	241.0	275.4	309.8	344.3	378.7	413.1	241.0	275.4	309.8	344.3								
OCV @ coldest temp (-10C, 14F amb)	233.6	267.0	300.4	333.8	367.1	400.5	233.6	267.0	300.4	333.8								
OCV @ coldest temp (0C, 32F amb)	226.3	258.6	290.9	323.3	355.6	387.9	226.3	258.6	290.9	323.3								
Power @ MPT (STC)	1155	1320	1485	1650	1815	1980	2310	2640	2970	3300								
PTC AC system power rating	987	1129	1270	1411	1552	1693	1986	2269	2553	2837								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 15 kW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 450VDC)

Module Manufacturer	Schuco				Power @ MPT				165.0 W									
Module Model	S 165-SP				PTC Power Rating				152.5 W									
Voltage @ MPT (STC)	24.2 VDC				Temp Coeff of Vmp				0.114 V/degC	(Vmp)								
Current @ MPT (STC)	6.83 ADC				Temp Coeff of Voc				0.105 V/degC	(Voc)								
Current, short circuit	7.36 ADC				NOCT (nom. cell temp)				46.2 deg C		115.16 deg F							
OCV @ 25 deg C cells	30.4 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20								
Modules per string	7	8	9	10	11	12	7	8	9	10								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	163.4	193.6	217.8	242.0	266.2	290.4	163.4	193.6	217.8	242.0								
Vmpt @ max amb temp (30C, 86F amb)	140.5	160.6	180.7	200.7	220.8	240.9	140.5	160.6	180.7	200.7								
Vmpt @ max amb temp (35C, 95F amb)	136.5	156.0	175.5	195.0	214.5	234.0	136.5	156.0	175.5	195.0								
Vmpt @ max amb temp (40C, 104F amb)	132.5	151.5	170.4	189.3	208.3	227.2	132.5	151.5	170.4	189.3								
Vmpt @ max amb temp (45C, 113F amb)	128.5	146.9	165.3	183.6	202.0	220.4	128.5	146.9	165.3	183.6								
Vmpt @ max amb temp (50C, 122F amb)	124.5	142.3	160.1	177.9	195.7	213.5	124.5	142.3	160.1	177.9								
OCV @ 25 deg C cells	212.8	243.2	273.6	304.0	334.4	364.8	212.8	243.2	273.6	304.0								
OCV @ coldest temp (-40C, -40F amb)	260.6	297.8	335.0	372.3	409.5	446.7	260.6	297.8	335.0	372.3								
OCV @ coldest temp (-30C, -22F amb)	253.2	289.4	325.6	361.8	397.9	434.1	253.2	289.4	325.6	361.8								
OCV @ coldest temp (-20C, -4F amb)	245.9	281.0	316.1	351.3	386.4	421.5	245.9	281.0	316.1	351.3								
OCV @ coldest temp (-10C, 14F amb)	238.5	272.6	306.7	340.8	374.8	408.9	238.5	272.6	306.7	340.8								
OCV @ coldest temp (0C, 32F amb)	231.2	264.2	297.2	330.3	363.3	396.3	231.2	264.2	297.2	330.3								
Power @ MPT (STC)	1155	1320	1485	1650	1815	1980	2310	2640	2970	3300								
PTC AC system power rating	987	1129	1270	1411	1552	1693	1986	2269	2553	2837								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	Schuco				Power @ MPT				158.0 W									
Module Model	S 158-SP2 & SP				PTC Power Rating				147.9 W (-SP is 146.9)									
Voltage @ MPT (STC)	23.6 VDC				Temp Coeff of Vmp				0.112 V/degC	(Vmp)								
Current @ MPT (STC)	6.69 ADC				Temp Coeff of Voc				0.104 V/degC	(Voc)								
Current, short circuit	7.33 ADC				NOCT (nom. cell temp)				46.2 deg C		115.16 deg F							
OCV @ 25 deg C cells	30.1 VDC																	
Modules total in array	7	8	9	10	11	12	14	16	18	20								
Modules per string	7	8	9	10	11	12	7	8	9	10								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2								
Voltage @ MPT (STC)	165.2	188.8	212.4	236.0	259.6	283.2	165.2	188.8	212.4	236.0								
Vmpt @ max amb temp (30C, 86F amb)	136.8	156.4	175.9	195.5	215.0	234.5	136.8	156.4	175.9	195.5								
Vmpt @ max amb temp (35C, 95F amb)	132.9	151.9	170.9	189.9	208.9	227.8	132.9	151.9	170.9	189.9								
Vmpt @ max amb temp (40C, 104F amb)	129.0	147.4	165.8	184.3	202.7	221.1	129.0	147.4	165.8	184.3								
Vmpt @ max amb temp (45C, 113F amb)	125.1	142.9	160.8	178.7	196.5	214.4	125.1	142.9	160.8	178.7								
Vmpt @ max amb temp (50C, 122F amb)	121.1	138.4	155.8	173.1	190.4	207.7	121.1	138.4	155.8	173.1								
OCV @ 25 deg C cells	210.7	240.8	270.9	301.0	331.1	361.2	210.7	240.8	270.9	301.0								
OCV @ coldest temp (-40C, -40F amb)	258.0	294.9	331.7	368.6	405.5	442.3	258.0	294.9	331.7	368.6								
OCV @ coldest temp (-30C, -22F amb)	250.7	286.6	322.4	358.2	394.0	429.8	250.7	286.6	322.4	358.2								
OCV @ coldest temp (-20C, -4F amb)	243.5	278.2	313.0	347.8	382.6	417.4	243.5	278.2	313.0	347.8								
OCV @ coldest temp (-10C, 14F amb)	236.2	269.9	303.7	337.4	371.1	404.9	236.2	269.9	303.7	337.4								
OCV @ coldest temp (0C, 32F amb)	228.9	261.6	294.3	327.0	359.7	392.4	228.9	261.6	294.3	327.0								
Power @ MPT (STC)	1106	1264	1422	1580	1738	1896	2212	2528	2844	3160								
PTC AC system power rating	958	1094	1231	1368	1505	1642	1926	2201	2476	2751								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer	SES				Power @ MPT				18.0 W									
Module Model	SwissTile				PTC Power Rating				0.0 W									
Voltage @ MPT (STC)	3.3 VDC				Temp Coeff of Vmp				0.0114 V/degC	(Vmp)								
Current @ MPT (STC)	5.61 ADC				Temp Coeff of Voc				0.0114 V/degC	(Voc)								
Current, short circuit	6.03 ADC				NOCT (nom. cell temp)				45 deg C		113 deg F							
OCV @ 25 deg C cells	4.0 VDC																	
Modules total in array	65	75	85	90	110	130	150	170	135	165								
Modules per string	65	75	85	45	55	65	75	85	45	55								
Strings in Parallel	1	1	1	1	2	2	2</											

Module Manufacturer		Sharp		Power @ MPT (STC)		230.0 W			
Module Model		ND-V230A1		PTC Power Rating		203.2 W			
Voltage @ MPT (STC)		30.3 VDC		Temp Coeff of Vmp		0.133 V/degC		(Vmp)	
Current @ MPT (STC)		7.6 ADC		Temp Coeff of Voc		0.133 V/degC		(Voc)	
Current, short circuit		8.24 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		37 VDC							
Modules total in array	6	7	8	9	10	12	14		
Modules per string	6	7	8	9	10	6	7		
Strings in Parallel	1	1	1	1	1	2	2		
Voltage @ MPT (STC)	181.8	212.1	242.4	272.7	181.8	212.1			
Vmpt @ max amb temp (30C, 86F amb)	151.9	177.2	202.5	227.8	151.9	177.2			
Vmpt @ max amb temp (35C, 95F amb)	147.9	172.5	197.2	221.8	147.9	172.5			
Vmpt @ max amb temp (40C, 104F amb)	143.9	167.9	191.9	215.8	143.9	167.9			
Vmpt @ max amb temp (45C, 113F amb)	139.9	163.2	186.5	209.9	139.9	163.2			
Vmpt @ max amb temp (50C, 122F amb)	135.9	158.6	181.2	203.9	135.9	158.6			
OCV @ 25 deg C cells	222.0	259.0	296.0	333.0	222.0	259.0			
OCV @ coldest temp (-40C, -40F amb)	273.9	319.5	365.2	410.8	273.9	319.5			
OCV @ coldest temp (-30C, -22F amb)	265.9	310.2	354.5	398.8	265.9	310.2			
OCV @ coldest temp (-20C, -4F amb)	257.9	300.9	343.9	386.9	257.9	300.9			
OCV @ coldest temp (-10C, 14F amb)	249.9	291.6	333.2	374.9	249.9	291.6			
OCV @ coldest temp (0C, 32F amb)	242.0	283.3	322.6	362.9	242.0	283.3			
Power @ MPT (STC)	1380	1610	1840	2070	2760	3220			
PTC AC system power rating	1128	1316	1504	1692	2256	2646			
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500			

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Sharp		Power @ MPT		224.0 W			
Module Model		ND-224U1F (U2)		PTC Power Rating		197.5 W			
Voltage @ MPT (STC)		29.28 VDC		Temp Coeff of Vmp		0.12 V/degC		(Vmp)	
Current @ MPT (STC)		7.86 ADC		Temp Coeff of Voc		0.12 V/degC		(Voc)	
Current, short circuit		8.33 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.6 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	175.7	205.0	234.2	263.5	292.8	175.7	205.0	234.2	
Vmpt @ max amb temp (30C, 86F amb)	148.7	173.5	198.2	223.0	247.8	148.7	173.5	198.2	
Vmpt @ max amb temp (35C, 95F amb)	145.1	169.3	193.4	217.6	241.8	145.1	169.3	193.4	
Vmpt @ max amb temp (40C, 104F amb)	141.5	165.1	188.6	212.2	235.8	141.5	165.1	188.6	
Vmpt @ max amb temp (45C, 113F amb)	137.9	160.9	183.8	206.8	229.8	137.9	160.9	183.8	
Vmpt @ max amb temp (50C, 122F amb)	134.3	156.7	179.0	201.4	223.8	134.3	156.7	179.0	
OCV @ 25 deg C cells	219.6	256.2	292.8	329.4	366.0	219.6	256.2	292.8	
OCV @ coldest temp (-40C, -40F amb)	266.4	310.8	355.2	399.6	444.0	266.4	310.8	355.2	
OCV @ coldest temp (-30C, -22F amb)	259.2	302.4	345.6	388.8	432.0	259.2	302.4	345.6	
OCV @ coldest temp (-20C, -4F amb)	252.0	294.0	336.0	378.0	420.0	252.0	294.0	336.0	
OCV @ coldest temp (-10C, 14F amb)	244.8	285.6	326.4	367.2	408.0	244.8	285.6	326.4	
OCV @ coldest temp (0C, 32F amb)	237.6	277.2	316.8	356.4	396.0	237.6	277.2	316.8	
Power @ MPT (STC)	1344	1568	1792	2016	2240	2888	3136	3584	
PTC AC system power rating	1096	1279	1462	1644	1827	2192	2371	2939	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Sharp		Power @ MPT		216.0 W			
Module Model		ND-216U1F		PTC Power Rating		190.5 W			
Voltage @ MPT (STC)		28.9 VDC		Temp Coeff of Vmp		0.12 V/degC		(Vmp)	
Current @ MPT (STC)		7.48 ADC		Temp Coeff of Voc		0.12 V/degC		(Voc)	
Current, short circuit		8.1 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.5 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	173.4	202.3	231.2	260.1	289.0	173.4	202.3	231.2	
Vmpt @ max amb temp (30C, 86F amb)	146.4	170.8	195.2	219.6	244.0	146.4	170.8	195.2	
Vmpt @ max amb temp (35C, 95F amb)	142.8	166.6	190.4	214.2	238.0	142.8	166.6	190.4	
Vmpt @ max amb temp (40C, 104F amb)	139.2	162.4	185.6	208.8	232.0	139.2	162.4	185.6	
Vmpt @ max amb temp (45C, 113F amb)	135.6	158.2	180.8	203.4	226.0	135.6	158.2	180.8	
Vmpt @ max amb temp (50C, 122F amb)	132.0	154.0	176.0	198.0	220.0	132.0	154.0	176.0	
OCV @ 25 deg C cells	219.0	255.5	292.0	328.5	365.0	219.0	255.5	292.0	
OCV @ coldest temp (-40C, -40F amb)	265.8	310.1	354.4	398.7	443.0	265.8	310.1	354.4	
OCV @ coldest temp (-30C, -22F amb)	258.6	301.7	344.8	387.9	431.0	258.6	301.7	344.8	
OCV @ coldest temp (-20C, -4F amb)	251.4	293.3	335.2	377.1	419.0	251.4	293.3	335.2	
OCV @ coldest temp (-10C, 14F amb)	244.2	285.2	326.1	366.3	407.0	244.2	285.2	326.1	
OCV @ coldest temp (0C, 32F amb)	237.0	277.1	316.0	355.5	395.0	237.0	277.1	316.0	
Power @ MPT (STC)	1296	1512	1728	1944	2160	2592	3024	3456	
PTC AC system power rating	1057	1233	1410	1586	1762	2115	2480	2835	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Sharp		Power @ MPT		216.0 W			
Module Model		ND-216U2		PTC Power Rating		190.5 W			
Voltage @ MPT (STC)		28.71 VDC		Temp Coeff of Vmp		0.12 V/degC		(Vmp)	
Current @ MPT (STC)		7.53 ADC		Temp Coeff of Voc		0.12 V/degC		(Voc)	
Current, short circuit		8.35 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.3 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	172.3	201.0	229.7	258.4	287.1	172.3	201.0	229.7	
Vmpt @ max amb temp (30C, 86F amb)	145.3	169.5	193.7	217.9	242.1	145.3	169.5	193.7	
Vmpt @ max amb temp (35C, 95F amb)	141.7	165.3	188.9	212.5	236.1	141.7	165.3	188.9	
Vmpt @ max amb temp (40C, 104F amb)	138.1	161.1	184.1	207.1	229.1	138.1	161.1	184.1	
Vmpt @ max amb temp (45C, 113F amb)	134.5	156.9	179.3	201.7	224.1	134.5	156.9	179.3	
Vmpt @ max amb temp (50C, 122F amb)	130.9	152.7	174.5	196.3	218.1	130.9	152.7	174.5	
OCV @ 25 deg C cells	217.8	254.1	290.4	326.7	363.0	217.8	254.1	290.4	
OCV @ coldest temp (-40C, -40F amb)	264.6	308.7	352.8	396.9	441.0	264.6	308.7	352.8	
OCV @ coldest temp (-30C, -22F amb)	257.4	300.3	343.2	386.1	429.0	257.4	300.3	343.2	
OCV @ coldest temp (-20C, -4F amb)	250.2	291.9	333.6	375.3	417.0	250.2	291.9	333.6	
OCV @ coldest temp (-10C, 14F amb)	243.0	283.5	324.0	364.5	405.0	243.0	283.5	324.0	
OCV @ coldest temp (0C, 32F amb)	235.8	275.1	314.4	353.7	393.0	235.8	275.1	314.4	
Power @ MPT (STC)	1296	1512	1728	1944	2160	2592	3024	3456	
PTC AC system power rating	1057	1233	1410	1586	1762	2115	2480	2835	
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Sharp		Power @ MPT		208.0 W			
Module Model		ND-208U1		PTC Power Rating		183.3 W			
Voltage @ MPT (STC)		28.5 VDC		Temp Coeff of Vmp		0.12 V/degC		(Vmp)	
Current @ MPT (STC)		7.3 ADC		Temp Coeff of Voc		0.12 V/degC		(Voc)	
Current, short circuit		8.13 ADC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
OCV @ 25 deg C cells		36.1 VDC							
Modules total in array	6	7	8	9	10	12	14	16	
Modules per string	6	7	8	9	10	6	7	8	
Strings in Parallel	1	1	1	1	1	2	2	2	
Voltage @ MPT (STC)	171.0	199.5	228.0	256.5	285.0	171.0	199.5	228.0	
Vmpt @ max amb temp (30C, 86F amb)	144.0	168.0	192.0	216.0	240.0	144.0	168.0	192.0	
Vmpt @ max amb temp (35C, 95F amb)	140.4	163.8	187.2	210.6	234.0	140.4	163.8	187.2	
Vmpt @ max amb temp (40C, 104F amb)	136.8	159.6	182.4	205.2	228.0	136.8	159.6	182.4	
Vmpt @ max amb temp (45C, 113F amb)	133.2	155.4	177.6	199.8	222.0	133.2	155.4	177.6	
Vmpt @ max amb temp (50C, 122F amb)	129.6	151.2	172.8	194.4	216.0	129.6	151.2	172.8	
OCV @ 25 deg C cells	216.6	252.7	288.8	324.9	361.0	216.6	252.7	288.8	
OCV @ coldest temp (-40C, -40F amb)	263.4	307.3	351.2	395.1	439.0	263.4	307.3	351.2	
OCV @ coldest temp (-30C, -22F amb)	256.2	298.9	341.6	384.3	427.0	256.2	298.9	341.6	
OCV @ coldest temp (-20C, -4F amb)	249.0	290.5	332.0	373.5	415.0	249.0	290.5	332.0	
OCV @ coldest temp (-10C, 14F amb)	241.8	282.1	322.4	362.7	403.0	241.8	282.1	322.4	
OCV @ coldest temp (0C, 32F amb)	234.6	273.7	312.8	351.9	391.0	234.6	273.7	312.8	
Power @ MPT (STC)	1248	1456	1664	1872	2080	2496	2		

Module Manufacturer	Sharp											Power @ MPT			205.0 W					
Module Model	ND-205U1											PTC Power Rating			189.6 W					
Voltage @ MPT (STC)	28.9 VDC											Temp Coeff of Vmp			0.12 V/degC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK			
Current @ MPT (STC)	7.1 ADC											Temp Coeff of Voc			0.12 V/degC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output			
Current, short circuit	7.91 ADC											NOCT (nom. cell temp)			47.5 deg C	117.5 deg F				
OCV @ 25 deg C cells	36.3 VDC																			
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	173.4	202.3	231.2	260.1	289.0	317.9	173.4	202.3	231.2	260.1										
Vmp @ max amb temp (30C, 86F amb)	145.4	170.8	195.2	219.6	244.0	268.4	145.4	170.8	195.2	219.6										
Vmp @ max amb temp (35C, 95F amb)	142.8	166.6	190.4	214.2	238.0	261.8	142.8	166.6	190.4	214.2										
Vmp @ max amb temp (40C, 104F amb)	139.2	162.4	185.6	208.8	232.0	255.2	139.2	162.4	185.6	208.8										
Vmp @ max amb temp (45C, 113F amb)	135.6	158.2	180.8	203.4	226.0	248.6	135.6	158.2	180.8	203.4										
Vmp @ max amb temp (50C, 122F amb)	132.0	154.0	176.0	198.0	220.0	242.0	132.0	154.0	176.0	198.0										
OCV @ 25 deg C cells	217.8	254.1	290.4	326.7	363.0	399.3	217.8	254.1	290.4	326.7										
OCV @ coldest temp (-40C, -40F amb)	264.6	308.7	352.8	396.9	441.0	485.1	264.6	308.7	352.8	396.9										
OCV @ coldest temp (-30C, -22F amb)	257.4	300.3	343.2	386.1	429.0	471.9	257.4	300.3	343.2	386.1										
OCV @ coldest temp (-20C, -4F amb)	250.2	291.9	333.6	375.3	417.0	458.7	250.2	291.9	333.6	375.3										
OCV @ coldest temp (-10C, 14F amb)	243.0	283.5	324.0	364.5	405.0	445.5	243.0	283.5	324.0	364.5										
OCV @ coldest temp (0C, 32F amb)	235.8	275.1	314.4	353.7	393.0	432.3	235.8	275.1	314.4	353.7										
Power @ MPT (STC)	1230	1435	1640	1845	2050	2255	1230	1435	1640	1845										
PTC AC system power rating	1002	1169	1336	1503	1671	1838	1002	1169	1336	1503										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	Sharp											Power @ MPT			206.0 W					
Module Model	ND-200U1											PTC Power Rating			176.1 W					
Voltage @ MPT (STC)	28.5 VDC											Temp Coeff of Vmp			0.144 V/degC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK			
Current @ MPT (STC)	7.02 ADC											Temp Coeff of Voc			0.144 V/degC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output			
Current, short circuit	7.82 ADC											NOCT (nom. cell temp)			47.5 deg C	117.5 deg F				
OCV @ 25 deg C cells	35.5 VDC																			
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	171.0	199.5	228.0	256.5	285.0	313.5	171.0	199.5	228.0	256.5										
Vmp @ max amb temp (30C, 86F amb)	138.6	161.7	184.8	207.9	231.0	254.1	138.6	161.7	184.8	207.9										
Vmp @ max amb temp (35C, 95F amb)	134.3	156.7	179.0	201.4	223.8	246.2	134.3	156.7	179.0	201.4										
Vmp @ max amb temp (40C, 104F amb)	130.0	151.6	173.3	194.9	216.5	238.1	130.0	151.6	173.3	194.9										
Vmp @ max amb temp (45C, 113F amb)	125.6	146.6	167.5	188.5	209.4	230.4	125.6	146.6	167.5	188.5										
Vmp @ max amb temp (50C, 122F amb)	121.3	141.5	161.8	182.0	202.2	222.4	121.3	141.5	161.8	182.0										
OCV @ 25 deg C cells	213.0	248.5	284.0	319.5	355.0	390.5	213.0	248.5	284.0	319.5										
OCV @ coldest temp (-40C, -40F amb)	262.2	314.0	358.9	403.7	448.6	493.5	262.2	314.0	358.9	403.7										
OCV @ coldest temp (-30C, -22F amb)	260.5	303.9	347.4	390.8	434.2	477.6	260.5	303.9	347.4	390.8										
OCV @ coldest temp (-20C, -4F amb)	251.9	293.9	335.8	377.8	419.8	461.8	251.9	293.9	335.8	377.8										
OCV @ coldest temp (-10C, 14F amb)	243.2	283.8	324.3	364.9	405.4	445.9	243.2	283.8	324.3	364.9										
OCV @ coldest temp (0C, 32F amb)	234.6	273.7	312.8	351.9	391.0	430.1	234.6	273.7	312.8	351.9										
Power @ MPT (STC)	1200	1400	1600	1800	2000	2200	1200	1400	1600	1800										
PTC AC system power rating	977	1140	1303	1466	1629	1792	977	1140	1303	1466										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	Sharp											Power @ MPT			198.0 W					
Module Model	ND-198U1F											PTC Power Rating			174.7 W					
Voltage @ MPT (STC)	26.3 VDC											Temp Coeff of Vmp			0.144 V/degC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK			
Current @ MPT (STC)	7.52 ADC											Temp Coeff of Voc			0.144 V/degC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output			
Current, short circuit	8.23 ADC											NOCT (nom. cell temp)			47.5 deg C	117.5 deg F				
OCV @ 25 deg C cells	32.9 VDC																			
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	157.8	184.1	210.4	236.7	263.0	289.3	157.8	184.1	210.4	236.7										
Vmp @ max amb temp (30C, 86F amb)	125.4	146.3	167.2	188.1	209.0	229.9	125.4	146.3	167.2	188.1										
Vmp @ max amb temp (35C, 95F amb)	121.1	141.3	161.4	181.6	201.8	221.9	121.1	141.3	161.4	181.6										
Vmp @ max amb temp (40C, 104F amb)	116.8	136.2	155.7	175.1	194.6	214.0	116.8	136.2	155.7	175.1										
Vmp @ max amb temp (45C, 113F amb)	112.4	131.2	149.9	168.7	187.4	206.2	112.4	131.2	149.9	168.7										
Vmp @ max amb temp (50C, 122F amb)	108.1	126.2	144.2	162.2	180.2	198.2	108.1	126.2	144.2	162.2										
OCV @ 25 deg C cells	197.4	230.3	263.2	296.1	329.0	361.9	197.4	230.3	263.2	296.1										
OCV @ coldest temp (-40C, -40F amb)	253.6	295.8	338.1	380.3	422.6	464.8	253.6	295.8	338.1	380.3										
OCV @ coldest temp (-30C, -22F amb)	244.9	285.7	326.6	367.4	408.2	449.0	244.9	285.7	326.6	367.4										
OCV @ coldest temp (-20C, -4F amb)	236.3	275.7	315.0	354.4	393.8	433.2	236.3	275.7	315.0	354.4										
OCV @ coldest temp (-10C, 14F amb)	227.6	265.2	303.5	341.8	380.1	418.4	227.6	265.2	303.5	341.8										
OCV @ coldest temp (0C, 32F amb)	219.0	255.5	292.0	328.5	365.0	401.5	219.0	255.5	292.0	328.5										
Power @ MPT (STC)	1188	1386	1584	1782	1980	2178	1188	1386	1584	1782										
PTC AC system power rating	970	1131	1293	1454	1616	1777	970	1131	1293	1454										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	Sharp											Power @ MPT			187.0 W					
Module Model	Y52-187											PTC Power Rating			164.8 W					
Voltage @ MPT (STC)	25.8 VDC											Temp Coeff of Vmp			0.144 V/degC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK			
Current @ MPT (STC)	7.25 ADC											Temp Coeff of Voc			0.144 V/degC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output			
Current, short circuit	7.99 ADC											NOCT (nom. cell temp)			47.5 deg C	117.5 deg F				
OCV @ 25 deg C cells	32.7 VDC																			
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	154.8	180.6	206.4	232.2	258.0	283.8	154.8	180.6	206.4	232.2										
Vmp @ max amb temp (30C, 86F amb)	122.4	142.8	163.2	183.6	204.0	224.4	122.4	142.8	163.2	183.6										
Vmp @ max amb temp (35C, 95F amb)	118.1	137.8	157.4	177.1	196.8	216.5	118.1	137.8	157.4	177.1										
Vmp @ max amb temp (40C, 104F amb)	113.8	132.7	151.7	170.6	189.6	208.6	113.8	132.7	151.7	170.6										
Vmp @ max amb temp (45C, 113F amb)	109.4	127.7	145.9	164.2	182.4	200.6	109.4	127.7	145.9	164.2										
Vmp @ max amb temp (50C, 122F amb)	105.1	122.6	140.2	157.7	175.2	192.7	105.1	122.6	140.2	157.7										
OCV @ 25 deg C cells	196.2	228.9	261.6	294.3	327.0	359.7	196.2	228.9	261.6	294.3										
OCV @ coldest temp (-40C, -40F amb)	252.4	294.4	336.5	378.5	420.5	462.5	252.4	294.4	336.5	378.5										
OCV @ coldest temp (-30C, -22F amb)	243.7	284.3	325.0	365.6	406.2	446.8	243.7	284.3	325.0	365.6										
OCV @ coldest temp (-20C, -4F amb)	235.1	274.3	313.4	352.6	391.8	431.0	235.1	274.3	313.4	352.6										
OCV @ coldest temp (-10C, 14F amb)	226.4	264.2	301.9	339.7	377.4	415.2	226.4	264.2	301.9	339.7										
OCV @ coldest temp (0C, 32F amb)	217.8	254.1	290.4	326.7	363.0	399.3	217.8	254.1	290.4	326.7										
Power @ MPT (STC)	1122	1309	1496	1683	1870	2057	1122	1309	1496	1683										
PTC AC system power rating	915	1067	1220	1372	1524	1676	915	1067	1220	1372										
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500										

Module Manufacturer	Sharp											Power @ MPT			187.0 W					
Module Model	ND-187U1F											PTC Power Rating			164.8 W					
Voltage @ MPT (STC)	25.8 VDC											Temp Coeff of Vmp			0.144 V/degC	(Vmp)	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK			
Current @ MPT (STC)	7.25 ADC											Temp Coeff of Voc			0.144 V/degC	(Voc)	orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output			
Current, short circuit	7.99 ADC											NOCT (nom. cell temp)			47.5 deg C	117.5 deg F				
OCV @ 25 deg C cells	32.7 VDC																			
Modules total in array	6	7	8	9	10	11	12	14	16	18										
Modules per string	6	7	8	9	10	11	6	7	8	9										
Strings in Parallel	1	1	1	1	1	1	2	2	2	2										
Voltage @ MPT (STC)	154.8	180.6	206.4	232.2	258.0	283.8	154.8	180.6	206.4	232.2										
Vmp @ max amb temp (30C, 86F amb)	122.4	142.8	163.2	183.6	204.0	224.4	122.4	142.8	163.2	183.6										
Vmp @ max amb temp (35C, 95F amb)	118.1	137.8	157.4	177.1	196.8	216.5	118.1	137.8	157.4	177.1										
Vmp @ max amb temp (40C, 104F amb)	113.8	132.7	151.7	170.6	189.6	20														

Module Manufacturer		Sharp											Power @ MPT		185.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		NT-185U1 (24V module)											PTC Power Rating		163.5 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
Voltage @ MPT (STC)		36.2 VDC											PTC Power Rating		163.5 W		purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)		5.11 ADC											Temp Coeff of Vmpt		0.144 V/degC			
Current, short circuit		5.75 ADC											Temp Coeff of Vocv		0.144 V/degC			
OCV @ 25 deg C cells		44.9 VDC											NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
Modules total in array		5	6	7	8	10	12	14	16	15	18							
Modules per string		5	6	7	8	5	6	7	8	5	6							
Strings in Parallel		1	1	1	1	2	2	2	2	3	3							
Voltage @ MPT (STC)		181.0	217.2	253.4	289.6	181.0	217.2	253.4	289.6	181.0	217.2							
Vmpt @ max amb temp (30C, 86F amb)		154.0	184.8	215.6	246.4	154.0	184.8	215.6	246.4	154.0	184.8							
Vmpt @ max amb temp (35C, 95F amb)		150.4	180.5	210.6	240.6	150.4	180.5	210.6	240.6	150.4	180.5							
Vmpt @ max amb temp (40C, 104F amb)		146.8	176.2	205.5	234.9	146.8	176.2	205.5	234.9	146.8	176.2							
Vmpt @ max amb temp (45C, 113F amb)		143.2	171.8	200.5	229.1	143.2	171.8	200.5	229.1	143.2	171.8							
Vmpt @ max amb temp (50C, 122F amb)		139.6	167.5	195.4	223.4	139.6	167.5	195.4	223.4	139.6	167.5							
OCV @ 25 deg C cells		224.5	269.4	314.3	359.2	224.5	269.4	314.3	359.2	224.5	269.4							
OCV @ coldest temp (-40C, -40F amb)		271.3	325.6	379.8	434.1	271.3	325.6	379.8	434.1	271.3	325.6							
OCV @ coldest temp (-30C, -22F amb)		264.1	316.9	369.7	422.6	264.1	316.9	369.7	422.6	264.1	316.9							
OCV @ coldest temp (-20C, -4F amb)		256.9	308.3	359.7	411.0	256.9	308.3	359.7	411.0	256.9	308.3							
OCV @ coldest temp (-10C, 14F amb)		249.7	299.6	349.6	399.5	249.7	299.6	349.6	399.5	249.7	299.6							
OCV @ coldest temp (0C, 32F amb)		242.5	291.0	339.5	389.0	242.5	291.0	339.5	389.0	242.5	291.0							
Power @ MPT (STC)		925	1110	1295	1480	1850	2220	2590	2960	2775	3330							
PTC AC system power rating		756	907	1059	1210	1512	1815	2129	2433	2281	2737							
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Sharp											Power @ MPT		180.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		NT-180U1 (24V module)											PTC Power Rating		159.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
Voltage @ MPT (STC)		35.86 VDC											PTC Power Rating		159.0 W		purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)		5.02 ADC											Temp Coeff of Vmpt		0.144 V/degC			
Current, short circuit		5.6 ADC											Temp Coeff of Vocv		0.144 V/degC			
OCV @ 25 deg C cells		44.8 VDC											NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
Modules total in array		5	6	7	8	10	12	14	16	15	18							
Modules per string		5	6	7	8	5	6	7	8	5	6							
Strings in Parallel		1	1	1	1	2	2	2	2	3	3							
Voltage @ MPT (STC)		179.3	215.2	251.0	286.9	179.3	215.2	251.0	286.9	179.3	215.2							
Vmpt @ max amb temp (30C, 86F amb)		152.3	182.8	213.2	243.7	152.3	182.8	213.2	243.7	152.3	182.8							
Vmpt @ max amb temp (35C, 95F amb)		148.7	178.4	208.2	237.9	148.7	178.4	208.2	237.9	148.7	178.4							
Vmpt @ max amb temp (40C, 104F amb)		145.1	174.1	203.1	232.2	145.1	174.1	203.1	232.2	145.1	174.1							
Vmpt @ max amb temp (45C, 113F amb)		141.5	169.8	198.1	226.4	141.5	169.8	198.1	226.4	141.5	169.8							
Vmpt @ max amb temp (50C, 122F amb)		137.9	165.5	193.1	220.6	137.9	165.5	193.1	220.6	137.9	165.5							
OCV @ 25 deg C cells		224.0	268.8	313.6	358.4	224.0	268.8	313.6	358.4	224.0	268.8							
OCV @ coldest temp (-40C, -40F amb)		270.8	325.0	379.1	433.3	270.8	325.0	379.1	433.3	270.8	325.0							
OCV @ coldest temp (-30C, -22F amb)		263.6	316.3	369.0	421.6	263.6	316.3	369.0	421.6	263.6	316.3							
OCV @ coldest temp (-20C, -4F amb)		256.4	307.7	359.0	410.2	256.4	307.7	359.0	410.2	256.4	307.7							
OCV @ coldest temp (-10C, 14F amb)		249.2	299.0	348.9	398.7	249.2	299.0	348.9	398.7	249.2	299.0							
OCV @ coldest temp (0C, 32F amb)		242.0	290.4	338.8	387.2	242.0	290.4	338.8	387.2	242.0	290.4							
Power @ MPT (STC)		900	1080	1260	1440	1800	2160	2520	2880	2700	3240							
PTC AC system power rating		735	882	1030	1177	1471	1765	2070	2366	2218	2662							
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Sharp											Power @ MPT		176.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		ND-176U1Y											PTC Power Rating		176.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
Voltage @ MPT (STC)		23.42 VDC											PTC Power Rating		176.0 W		purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)		7.52 ADC											Temp Coeff of Vmpt		0.096 V/degC			
Current, short circuit		8.22 ADC											Temp Coeff of Vocv		0.096 V/degC			
OCV @ 25 deg C cells		29.28 VDC											NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
Modules total in array		6	7	8	9	10	11	12	14	16	18							
Modules per string		6	7	8	9	10	11	12	6	7	8							
Strings in Parallel		1	1	1	1	1	1	1	2	2	2							
Voltage @ MPT (STC)		140.0	163.9	187.4	210.8	234.2	257.6	281.0	140.5	163.9	187.4	210.8						
Vmpt @ max amb temp (30C, 86F amb)		118.3	138.7	158.6	178.4	198.2	218.0	237.8	118.3	138.7	158.6	178.4						
Vmpt @ max amb temp (35C, 95F amb)		116.0	135.4	154.7	174.1	193.4	212.7	232.1	116.0	135.4	154.7	174.1						
Vmpt @ max amb temp (40C, 104F amb)		113.2	132.0	150.9	169.7	188.6	207.5	226.3	113.2	132.0	150.9	169.7						
Vmpt @ max amb temp (45C, 113F amb)		110.3	128.7	147.0	165.4	183.8	202.2	220.6	110.3	128.7	147.0	165.4						
Vmpt @ max amb temp (50C, 122F amb)		107.4	125.3	143.2	161.1	179.0	197.4	214.8	107.4	125.3	143.2	161.1						
OCV @ 25 deg C cells		175.7	205.0	234.2	263.5	292.8	322.1	351.4	175.7	205.0	234.2	263.5						
OCV @ coldest temp (-40C, -40F amb)		213.1	248.6	284.2	319.7	355.2	390.7	426.2	213.1	248.6	284.2	319.7						
OCV @ coldest temp (-30C, -22F amb)		207.4	241.9	276.5	311.0	345.6	380.2	414.7	207.4	241.9	276.5	311.0						
OCV @ coldest temp (-20C, -4F amb)		201.6	235.2	268.8	302.4	336.0	369.6	403.2	201.6	235.2	268.8	302.4						
OCV @ coldest temp (-10C, 14F amb)		195.8	229.5	263.1	296.7	330.3	363.9	397.5	195.8	229.5	263.1	296.7						
OCV @ coldest temp (0C, 32F amb)		190.1	221.8	255.4	289.1	322.7	356.4	390.0	190.1	221.8	255.4	289.1						
Power @ MPT (STC)		1056	1232	1408	1584	1760	1936	2112	2112	2464	2816	3168						
PTC AC system power rating		862	1006	1149	1293	1437	1580	1733	1733	2022	2311	2600						
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer		Sharp											Power @ MPT		175.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		NT-175U1 (24V module)											PTC Power Rating		154.4 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
Voltage @ MPT (STC)		36.4 VDC											PTC Power Rating		154.4 W		purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)		4.95 ADC											Temp Coeff of Vmpt		0.144 V/degC			
Current, short circuit		5.4 ADC											Temp Coeff of Vocv		0.144 V/degC			
OCV @ 25 deg C cells		44.4 VDC											NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
Modules total in array		5	6	7	8	10	12	14	16	15	18							
Modules per string		5	6	7	8	5	6	7	8	5	6							
Strings in Parallel		1	1	1	1	2	2	2	2	3	3							
Voltage @ MPT (STC)		177.0	212.4	247.8	283.2	177.0	212.4	247.8	283.2	177.0	212.4							
Vmpt @ max amb temp (30C, 86F amb)		150.0	180.0	210.0	240.0	150.0	180.0	210.0	240.0	150.0	180.0							
Vmpt @ max amb temp (35C, 95F amb)		146.4	175.7	205.0	234.2	146.4	175.7	205.0	234.2	146.4	175.7							
Vmpt @ max amb temp (40C, 104F amb)		142.8	171.4	199.9	228.5	142.8	171.4	199.9	228.5	142.8	171.4							
Vmpt @ max amb temp (45C, 113F amb)		139.2	167.0	194.9	222.7	139.2	167.0	194.9	222.7	139.2	167.0							
Vmpt @ max amb temp (50C, 122F amb)		135.6	162.7	189.8	217.0	135.6	162.7	189.8	217.0	135.6	162.7							
OCV @ 25 deg C cells		222.0	266.4	310.8	355.2	222.0	266.4	310.8	355.2	222.0	266.4							
OCV @ coldest temp (-40C, -40F amb)		268.8	322.6	376.3	430.1	268.8	322.6	376.3	430.1	268.8	322.6							
OCV @ coldest temp (-30C, -22F amb)		261.6	313.9	366.2	418.6	261.6	313.9	366.2	418.6	261.6	313.9							
OCV @ coldest temp (-20C, -4F amb)		254.4	305.3	356.2	407.0	254.4	305.3	356.2	407.0	254.4	305.3							
OCV @ coldest temp (-10C, 14F amb)		247.2	296.6	346.1	395.5	247.2	296.6	346.1	395.5	247.2	296.6							
OCV @ coldest temp (0C, 32F amb)		240.0	288.0	336.0	384.0	240.0	288.0	336.0	384.0	240.0	288.0							
Power @ MPT (STC)		875	1050	1225	1400	1750	2100	2450	2800	2625	3150							
PTC AC system power rating		714	857	1000	1143	1428	1714	2010	2297	2154	2585							
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Sharp											Power @ MPT		170.0 W		For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		NE-170U1 (24V module)											PTC Power Rating		149.9 W		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
Voltage @ MPT (STC)		34.8 VDC											PTC Power Rating		149.9 W		purple is OK but indicates inverter will limit to 2500W AC continuous output	
Current @ MPT (STC)		4.9 ADC											Temp Coeff of Vmpt		0.144 V/degC			
Current, short circuit		5.47 ADC											Temp Coeff of Vocv		0.144 V/degC			
OCV @ 25 deg C cells		43.2 VDC											NOCT (nom. cell temp)		47.5 deg C		117.5 deg F	
Modules total in array		5	6	7	8	10	12	14	16	15	18							

Module Manufacturer		Siemens Solar		Power @ MPT		150.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model		SP150-24P		PTC Power Rating		134.9 W														
Voltage @ MPT (STC)		34 VDC		Temp Coeff of Vmp		0.077 V/degC		(Vmpt)												
Current @ MPT (STC)		4.4 ADC		Temp Coeff of Vocv		0.077 V/degC		(Vocv)												
Current, short circuit		4.8 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F												
OCV @ 25 deg C cells		43.4 VDC																		
Modules total in array	4	5	6	7	8	8	10	12	14	16	12	15	18	21						
Modules per string	4	5	6	7	8	8	4	5	6	7	8	4	5	6	7					
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3					
Voltage @ MPT (STC)	136.0	170.0	204.0	238.0	272.0	136.0	170.0	204.0	238.0	272.0	136.0	170.0	204.0	238.0						
Vmpt @ max amb temp (30C, 86F amb)	125.2	156.5	187.8	219.1	250.4	125.2	156.5	187.8	219.1	250.4	125.2	156.5	187.8	219.1						
Vmpt @ max amb temp (35C, 95F amb)	127.1	154.6	185.5	216.4	247.4	127.1	154.6	185.5	216.4	247.4	127.1	154.6	185.5	216.4						
Vmpt @ max amb temp (40C, 104F amb)	122.1	152.7	183.2	213.7	244.3	122.1	152.7	183.2	213.7	244.3	122.1	152.7	183.2	213.7						
Vmpt @ max amb temp (45C, 113F amb)	120.6	150.8	180.9	211.1	241.2	120.6	150.8	180.9	211.1	241.2	120.6	150.8	180.9	211.1						
Vmpt @ max amb temp (50C, 122F amb)	117.8	148.8	178.6	208.4	238.1	117.8	148.8	178.6	208.4	238.1	117.8	148.8	178.6	208.4						
OCV @ 25 deg C cells	173.5	217.0	260.4	303.8	347.2	173.5	217.0	260.4	303.8	347.2	173.5	217.0	260.4	303.8						
OCV @ coldest temp (-40C, -40F amb)	193.6	242.0	290.4	338.8	387.2	193.6	242.0	290.4	338.8	387.2	193.6	242.0	290.4	338.8						
OCV @ coldest temp (-30C, -22F amb)	190.5	238.2	285.8	333.4	381.1	190.5	238.2	285.8	333.4	381.1	190.5	238.2	285.8	333.4						
OCV @ coldest temp (-20C, -4F amb)	187.5	234.3	281.2	328.1	374.9	187.5	234.3	281.2	328.1	374.9	187.5	234.3	281.2	328.1						
OCV @ coldest temp (-10C, 14F amb)	184.4	230.5	276.6	322.7	368.8	184.4	230.5	276.6	322.7	368.8	184.4	230.5	276.6	322.7						
OCV @ coldest temp (0C, 32F amb)	181.3	226.6	272.0	317.3	362.6	181.3	226.6	272.0	317.3	362.6	181.3	226.6	272.0	317.3						
Power @ MPT (STC)	600	750	900	1050	1200	600	750	900	1050	1200	600	750	900	1050						
PTC AC system power rating	499	624	749	873	998	499	624	749	873	998	499	624	749	873						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer		Solar Fabrik Series		Power @ MPP		220.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model		SF 200A-220		PTC Power Rating		0.0 W														
Voltage @ MPP (STC)		28.6 VDC		Temp Coeff of Vmp		0.126 V/degC		(Vmpp)												
Current @ MPP (STC)		7.7 ADC		Temp Coeff of Vocv		0.127 V/degC		(Vocv)												
Current, short circuit		8.15 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F												
OCV @ 25 deg C cells		36.4 VDC																		
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	15	18							
Modules per string	5	6	7	8	9	10	5	7	8	9	5	6								
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	3	3								
Voltage @ MPP (STC)	143.0	171.6	200.2	228.8	257.4	286.0	143.0	171.6	200.2	228.8	257.4	143.0	171.6							
Vmpt @ max amb temp (30C, 86F amb)	121.0	145.1	169.3	193.5	217.7	241.9	121.0	145.1	169.3	193.5	217.7	121.0	145.1							
Vmpt @ max amb temp (35C, 95F amb)	117.8	141.4	164.9	188.5	212.0	235.6	117.8	141.4	164.9	188.5	212.0	117.8	141.4							
Vmpt @ max amb temp (40C, 104F amb)	114.7	137.6	160.5	183.4	206.4	229.3	114.7	137.6	160.5	183.4	206.4	114.7	137.6							
Vmpt @ max amb temp (45C, 113F amb)	111.5	133.8	156.1	178.4	200.7	223.0	111.5	133.8	156.1	178.4	200.7	111.5	133.8							
Vmpt @ max amb temp (50C, 122F amb)	108.4	130.0	151.7	173.4	195.0	216.7	108.4	130.0	151.7	173.4	195.0	108.4	130.0							
OCV @ 25 deg C cells	182.0	218.4	254.8	291.2	327.6	364.0	182.0	218.4	254.8	291.2	327.6	182.0	218.4							
OCV @ coldest temp (-40C, -40F amb)	223.3	267.9	312.6	357.2	401.9	446.6	223.3	267.9	312.6	357.2	401.9	223.3	267.9							
OCV @ coldest temp (-30C, -22F amb)	218.9	263.3	308.7	347.1	385.5	430.2	218.9	263.3	308.7	347.1	385.5	218.9	263.3							
OCV @ coldest temp (-20C, -4F amb)	210.6	252.7	294.8	336.9	379.0	421.2	210.6	252.7	294.8	336.9	379.0	210.6	252.7							
OCV @ coldest temp (-10C, 14F amb)	204.2	245.1	285.9	326.8	367.6	408.5	204.2	245.1	285.9	326.8	367.6	204.2	245.1							
OCV @ coldest temp (0C, 32F amb)	197.9	237.5	277.0	316.6	356.2	395.8	197.9	237.5	277.0	316.6	356.2	197.9	237.5							
Power @ MPT (STC)	1100	1320	1540	1760	1980	2200	1100	1320	1540	1760	1980	1100	1320							
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer		Solar Fabrik Series		Power @ MPP		210.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model		SF 200A-210		PTC Power Rating		0.0 W														
Voltage @ MPP (STC)		28.1 VDC		Temp Coeff of Vmp		0.126 V/degC		(Vmpp)												
Current @ MPP (STC)		7.48 ADC		Temp Coeff of Vocv		0.126 V/degC		(Vocv)												
Current, short circuit		7.96 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F												
OCV @ 25 deg C cells		35.8 VDC																		
Modules total in array	5	6	7	8	9	10	10	12	14	16	18	15	18							
Modules per string	5	6	7	8	9	10	5	6	7	8	9	5	6							
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	3	3								
Voltage @ MPP (STC)	140.0	168.6	196.7	224.8	252.9	281.0	140.0	168.6	196.7	224.8	252.9	140.0	168.6							
Vmpt @ max amb temp (30C, 86F amb)	118.5	142.1	165.8	189.5	213.2	236.9	118.5	142.1	165.8	189.5	213.2	118.5	142.1							
Vmpt @ max amb temp (35C, 95F amb)	115.3	138.4	161.4	184.5	207.5	230.6	115.3	138.4	161.4	184.5	207.5	115.3	138.4							
Vmpt @ max amb temp (40C, 104F amb)	112.2	134.6	157.0	179.4	201.9	224.3	112.2	134.6	157.0	179.4	201.9	112.2	134.6							
Vmpt @ max amb temp (45C, 113F amb)	109.0	130.8	152.6	174.4	196.2	218.0	109.0	130.8	152.6	174.4	196.2	109.0	130.8							
Vmpt @ max amb temp (50C, 122F amb)	105.8	127.0	148.2	169.5	190.5	211.7	105.8	127.0	148.2	169.5	190.5	105.8	127.0							
OCV @ 25 deg C cells	179.0	214.8	250.6	286.4	322.2	358.0	179.0	214.8	250.6	286.4	322.2	179.0	214.8							
OCV @ coldest temp (-40C, -40F amb)	220.0	263.9	307.9	351.9	395.9	439.9	220.0	263.9	307.9	351.9	395.9	220.0	263.9							
OCV @ coldest temp (-30C, -22F amb)	213.7	256.4	299.1	341.8	384.6	427.3	213.7	256.4	299.1	341.8	384.6	213.7	256.4							
OCV @ coldest temp (-20C, -4F amb)	207.4	248.8	290.3	331.8	373.2	414.7	207.4	248.8	290.3	331.8	373.2	207.4	248.8							
OCV @ coldest temp (-10C, 14F amb)	201.1	241.3	281.5	321.7	361.9	401.9	201.1	241.3	281.5	321.7	361.9	201.1	241.3							
OCV @ coldest temp (0C, 32F amb)	194.8	233.7	272.7	311.6	350.6	389.5	194.8	233.7	272.7	311.6	350.6	194.8	233.7							
Power @ MPT (STC)	1050	1260	1470	1680	1890	2100	1050	1260	1470	1680	1890	1050	1260							
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0							
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer		Solar Fabrik Series		Power @ MPP		200.0 W				For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output										
Module Model		SF 200A-200		PTC Power Rating		0.0 W														
Voltage @ MPP (STC)		27.6 VDC		Temp Coeff of Vmp		0.126 V/degC		(Vmpp)												
Current @ MPP (STC)		7.27 ADC		Temp Coeff of Vocv		0.126 V/degC		(Vocv)												
Current, short circuit		7.77 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F												
OCV @ 25 deg C cells		35 VDC																		
Modules total in array	6	7	8	9	10	10	12	14	16	18	18									
Modules per string	6	7	8	9	10	10	6	7	8	9	6									
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	3									
Voltage @ MPP (STC)	165.6	192.3	220.8	248.4	276.0	303.6	165.6	192.3	220.8	248.4	276.0	165.6	192.3	220.8						
Vmpt @ max amb temp (30C, 86F amb)	139.1	162.3	185.5	208.7	231.9	255.1	139.1	162.3	185.5	208.7	231.9	139.1	162.3	185.5						
Vmpt @ max amb temp (35C, 95F amb)	135.4	157.9	180.5	203.0	225.6	248.2	135.4	157.9	180.5	203.0	225.6	135.4	157.9	180.5						
Vmpt @ max amb temp (40C, 104F amb)	131.6	153.5	175.4	197.4	219.3	241.3	131.6	153.5	175.4	197.4	219.3	131.6	153.5	175.4						
Vmpt @ max amb temp (45C, 113F amb)	127.8	149.1	170.4	191.7	2															

Module Manufacturer		SolarFun SF160-24 (170W version)										Power @ MPT			170.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		35.9 VDC										PTC Power Rating			149.8 W			
Voltage @ MPT (STC)		4.74 ADC										Temp Coeff of Vmpt			0.135 V/degC			
Current @ MPT (STC)		5.12 ADC										Temp Coeff of Vocv			0.165 V/degC			
Current, short circuit		44.5 VDC										NOCT (nom. cell temp)			45 deg C			
Modules total in array		6	7	8	10	12	14	16	15	18	21							
Modules per string		6	7	8	5	6	7	8	5	6	7							
Strings in Parallel		1	1	1	2	2	2	2	3	3	3							
Voltage @ MPT (STC)		215.4	251.3	287.2	179.5	215.4	251.3	287.2	179.5	215.4	251.3							
Vmpt @ max amb temp (30C, 86F amb)		187.1	218.2	249.4	185.9	187.1	218.2	249.4	185.9	187.1	218.2							
Vmpt @ max amb temp (35C, 95F amb)		183.0	213.5	244.0	182.5	183.0	213.5	244.0	182.5	183.0	213.5							
Vmpt @ max amb temp (40C, 104F amb)		179.0	208.8	238.6	149.1	179.0	208.8	238.6	149.1	179.0	208.8							
Vmpt @ max amb temp (45C, 113F amb)		174.9	204.1	233.2	145.8	174.9	204.1	233.2	145.8	174.9	204.1							
Vmpt @ max amb temp (50C, 122F amb)		170.9	199.3	227.8	142.4	170.9	199.3	227.8	142.4	170.9	199.3							
OCV @ 25 deg C cells		267.0	311.5	356.0	222.5	267.0	311.5	356.0	222.5	267.0	311.5							
OCV @ coldest temp (-40C, -40F amb)		331.4	386.6	441.8	276.1	331.4	386.6	441.8	276.1	331.4	386.6							
OCV @ coldest temp (-30C, -22F amb)		321.5	375.0	428.6	267.9	321.5	375.0	428.6	267.9	321.5	375.0							
OCV @ coldest temp (-20C, -4F amb)		311.6	363.5	415.4	259.6	311.6	363.5	415.4	259.6	311.6	363.5							
OCV @ coldest temp (-10C, 14F amb)		301.7	351.9	402.2	251.4	301.7	351.9	402.2	251.4	301.7	351.9							
OCV @ coldest temp (0C, 32F amb)		291.8	340.4	389.0	243.1	291.8	340.4	389.0	243.1	291.8	340.4							
Power @ MPT (STC)		1020	1190	1360	1700	2040	2380	2720	2550	3060	3570							
PTC AC system power rating		831	970	1109	1386	1663	1950	2229	2090	2508	2926							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		SolarFun SF160-24 (160W version)										Power @ MPT			160.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		35.6 VDC										PTC Power Rating			140.3 W			
Voltage @ MPT (STC)		4.5 ADC										Temp Coeff of Vmpt			0.135 V/degC			
Current @ MPT (STC)		5 ADC										Temp Coeff of Vocv			0.165 V/degC			
Current, short circuit		43.5 VDC										NOCT (nom. cell temp)			45 deg C			
Modules total in array		6	7	8	10	12	14	16	15	18	21							
Modules per string		6	7	8	5	6	7	8	5	6	7							
Strings in Parallel		1	1	1	2	2	2	2	3	3	3							
Voltage @ MPT (STC)		213.6	249.2	284.8	178.0	213.6	249.2	284.8	178.0	213.6	249.2							
Vmpt @ max amb temp (30C, 86F amb)		185.3	216.1	247.0	154.4	185.3	216.1	247.0	154.4	185.3	216.1							
Vmpt @ max amb temp (35C, 95F amb)		181.2	211.4	241.6	151.0	181.2	211.4	241.6	151.0	181.2	211.4							
Vmpt @ max amb temp (40C, 104F amb)		177.2	206.7	236.2	147.6	177.2	206.7	236.2	147.6	177.2	206.7							
Vmpt @ max amb temp (45C, 113F amb)		173.1	202.0	230.8	144.3	173.1	202.0	230.8	144.3	173.1	202.0							
Vmpt @ max amb temp (50C, 122F amb)		169.1	197.2	225.4	140.9	169.1	197.2	225.4	140.9	169.1	197.2							
OCV @ 25 deg C cells		261.0	304.5	348.0	217.5	261.0	304.5	348.0	217.5	261.0	304.5							
OCV @ coldest temp (-40C, -40F amb)		325.4	379.8	433.8	271.1	325.4	379.8	433.8	271.1	325.4	379.8							
OCV @ coldest temp (-30C, -22F amb)		315.5	368.0	420.6	262.9	315.5	368.0	420.6	262.9	315.5	368.0							
OCV @ coldest temp (-20C, -4F amb)		305.6	356.5	407.4	254.6	305.6	356.5	407.4	254.6	305.6	356.5							
OCV @ coldest temp (-10C, 14F amb)		295.7	344.9	394.2	246.4	295.7	344.9	394.2	246.4	295.7	344.9							
OCV @ coldest temp (0C, 32F amb)		285.8	333.4	381.0	238.1	285.8	333.4	381.0	238.1	285.8	333.4							
Power @ MPT (STC)		960	1120	1280	1600	1920	2240	2560	2400	2880	3360							
PTC AC system power rating		779	908	1038	1298	1557	1827	2098	1927	2349	2740							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Solar Power SP 200FP12										Power @ MPT			200.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		25.8 VDC										PTC Power Rating			184.2 W			
Voltage @ MPT (STC)		7.95 ADC										Temp Coeff of Vmpt			0.101 V/degC			
Current @ MPT (STC)		8.48 ADC										Temp Coeff of Vocv			0.101 V/degC			
Current, short circuit		32.6 VDC										NOCT (nom. cell temp)			48.6 deg C			
Modules total in array		6	7	8	9	10	11	12	14	16	16							
Modules per string		6	7	8	9	10	11	6	7	8	8							
Strings in Parallel		1	1	1	1	1	1	2	2	2	2							
Voltage @ MPT (STC)		154.8	180.6	206.4	232.2	258.0	283.8	154.8	180.6	206.4	232.2							
Vmpt @ max amb temp (30C, 86F amb)		131.4	153.3	175.2	187.1	219.0	240.9	131.4	153.3	175.2	187.1							
Vmpt @ max amb temp (35C, 95F amb)		128.4	149.8	171.2	192.6	214.0	235.4	128.4	149.8	171.2	192.6							
Vmpt @ max amb temp (40C, 104F amb)		125.3	146.2	167.1	188.0	208.9	229.8	125.3	146.2	167.1	188.0							
Vmpt @ max amb temp (45C, 113F amb)		122.3	142.7	163.1	183.5	203.9	224.3	122.3	142.7	163.1	183.5							
Vmpt @ max amb temp (50C, 122F amb)		119.3	139.2	159.3	179.8	199.9	219.7	119.3	139.2	159.3	179.8							
OCV @ 25 deg C cells		195.6	228.2	260.8	293.4	326.0	358.6	195.6	228.2	260.8	293.4							
OCV @ coldest temp (-40C, -40F amb)		235.0	274.2	313.3	352.5	391.7	430.8	235.0	274.2	313.3	352.5							
OCV @ coldest temp (-30C, -22F amb)		228.9	267.1	305.2	343.4	381.6	419.7	228.9	267.1	305.2	343.4							
OCV @ coldest temp (-20C, -4F amb)		222.9	260.0	297.2	334.3	371.5	408.6	222.9	260.0	297.2	334.3							
OCV @ coldest temp (-10C, 14F amb)		216.9	254.0	291.1	328.2	365.4	402.5	216.9	254.0	291.1	328.2							
OCV @ coldest temp (0C, 32F amb)		210.8	245.9	281.0	316.1	351.3	386.4	210.8	245.9	281.0	316.1							
Power @ MPT (STC)		1230	1435	1640	1845	2050	2255	2460	2870	3280	3690							
PTC AC system power rating		1022	1193	1363	1533	1704	1884	2056	2398	2741	3084							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Solar Power SP 200FP12										Power @ MPT			200.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		25.41 VDC										PTC Power Rating			183.1 W			
Voltage @ MPT (STC)		7.87 ADC										Temp Coeff of Vmpt			0.113 V/degC			
Current @ MPT (STC)		8.4 ADC										Temp Coeff of Vocv			0.113 V/degC			
Current, short circuit		32.3 VDC										NOCT (nom. cell temp)			48.6 deg C			
Modules total in array		6	7	8	9	10	11	12	14	16	16							
Modules per string		6	7	8	9	10	11	6	7	8	8							
Strings in Parallel		1	1	1	1	1	1	2	2	2	2							
Voltage @ MPT (STC)		152.5	177.9	203.3	228.7	254.1	279.5	152.5	177.9	203.3	228.7							
Vmpt @ max amb temp (30C, 86F amb)		126.3	147.3	168.4	189.4	210.5	231.5	126.3	147.3	168.4	189.4							
Vmpt @ max amb temp (35C, 95F amb)		122.9	143.4	163.9	184.3	204.8	225.3	122.9	143.4	163.9	184.3							
Vmpt @ max amb temp (40C, 104F amb)		119.5	139.4	159.3	179.3	199.2	219.1	119.5	139.4	159.3	179.3							
Vmpt @ max amb temp (45C, 113F amb)		116.1	135.5	154.8	174.2	193.5	212.9	116.1	135.5	154.8	174.2							
Vmpt @ max amb temp (50C, 122F amb)		112.7	131.5	150.3	169.1	187.9	206.7	112.7	131.5	150.3	169.1							
OCV @ 25 deg C cells		193.8	226.1	258.4	290.7	323.0	355.3	193.8	226.1	258.4	290.7							
OCV @ coldest temp (-40C, -40F amb)		237.9	277.5	317.2	356.8	396.5	436.1	237.9	277.5	317.2	356.8							
OCV @ coldest temp (-30C, -22F amb)		231.1	269.6	308.1	346.6	385.2	423.7	231.1	269.6	308.1	346.6							
OCV @ coldest temp (-20C, -4F amb)		224.3	261.7	299.1	336.5	373.9	411.2	224.3	261.7	299.1	336.5							
OCV @ coldest temp (-10C, 14F amb)		217.5	253.8	290.0	326.3	362.6	398.8	217.5	253.8	290.0	326.3							
OCV @ coldest temp (0C, 32F amb)		210.8	245.9	281.0	316.1	351.3	386.4	210.8	245.9	281.0	316.1							
Power @ MPT (STC)		1200	1400	1600	1800	2000	2200	2400	2800	3200	3600							
PTC AC system power rating		1016	1186	1355	1524	1694	1873	2043	2384	2725	3066							
Suggested Inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500							

Module Manufacturer		Solar Power SP 170										Power @ MPT			170.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model		34.97 VDC										PTC Power Rating			146.6 W			
Voltage @ MPT (STC)		4.86 ADC										Temp Coeff of Vmpt			0.113 V/degC			
Current @ MPT (STC)		5.28 ADC										Temp Coeff of Vocv			0.154 V/degC			
Current, short circuit		43.3 VDC										NOCT (nom. cell temp)			45 deg C			
Modules total in array		5	6	7	8	10	12	14	16	15	18	21						
Modules per string		5	6	7	8	5	6	7	8	5	6	7						
Strings in Parallel		1	1	1	1	2	2	2	2	3	3							

Module Manufacturer		Solartech			Power @ MPT		230.0 W																
Module Model		SPM 230P			PTC Power Rating		197.9 W																
Voltage @ MPT (STC)		30.96 VDC			Temp Coeff of Vmp		0.133 V/degC			(Vmp)													
Current @ MPT (STC)		7.97 ADC			Temp Coeff of Voc		0.133 V/degC			(Voc)													
Current, short circuit		36.95 VDC			NOCT (nom. cell temp)		46 deg C			114.8 deg F													
OCV @ 25 deg C cells																							
Modules total in array		5	6	7	8	9	10	12	14														
Modules per string		5	6	7	8	9	5	6	7														
Strings in Parallel		1	1	1	1	1	1	2	2														
Voltage @ MPT (STC)		154.8	185.8	216.7	247.7	278.6	154.8	185.8	216.7														
Vmpt @ max amb temp (30C, 86F amb)		130.9	157.0	183.2	209.4	235.5	130.9	157.0	183.2														
Vmpt @ max amb temp (35C, 95F amb)		127.5	153.0	178.5	204.0	229.6	127.5	153.0	178.5														
Vmpt @ max amb temp (40C, 104F amb)		124.2	149.0	173.9	198.7	223.6	124.2	149.0	173.9														
Vmpt @ max amb temp (45C, 113F amb)		120.9	145.1	169.2	193.4	217.6	120.9	145.1	169.2														
Vmpt @ max amb temp (50C, 122F amb)		117.8	141.1	164.6	188.1	211.6	117.8	141.1	164.6														
OCV @ 25 deg C cells		184.8	221.7	258.7	295.6	332.6	184.8	221.7	258.7														
OCV @ coldest temp (-40C, -40F amb)		228.0	273.6	319.2	364.8	410.4	228.0	273.6	319.2														
OCV @ coldest temp (-30C, -22F amb)		221.3	265.6	309.9	354.1	398.4	221.3	265.6	309.9														
OCV @ coldest temp (-20C, -4F amb)		214.7	257.6	300.6	343.5	386.4	214.7	257.6	300.6														
OCV @ coldest temp (-10C, 14F amb)		208.0	249.6	291.2	332.8	374.5	208.0	249.6	291.2														
OCV @ coldest temp (0C, 32F amb)		201.4	241.7	281.9	322.2	362.5	201.4	241.7	281.9														
Power @ MPT (STC)		1190	1380	1610	1840	2070	1190	1380	1610	1840	2070	2300	2760	3220									
PTC AC system power rating		915	1098	1281	1464	1648	915	1098	1281	1464	1648	1840	2209	2577									
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500														

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Solartech			Power @ MPT		225.0 W																
Module Model		SPM 225P			PTC Power Rating		193.4 W																
Voltage @ MPT (STC)		28.44 VDC			Temp Coeff of Vmp		0.133 V/degC			(Vmp)													
Current @ MPT (STC)		7.92 ADC			Temp Coeff of Voc		0.133 V/degC			(Voc)													
Current, short circuit		37.08 VDC			NOCT (nom. cell temp)		46 deg C			114.8 deg F													
OCV @ 25 deg C cells																							
Modules total in array		6	7	8	9	10	12	14															
Modules per string		6	7	8	9	10	6	7															
Strings in Parallel		1	1	1	1	1	2	2															
Voltage @ MPT (STC)		170.6	199.1	227.5	256.0	284.4	170.6	199.1															
Vmpt @ max amb temp (30C, 86F amb)		141.8	165.4	189.1	212.7	236.3	141.8	165.4															
Vmpt @ max amb temp (35C, 95F amb)		137.8	160.8	183.7	206.7	229.7	137.8	160.8															
Vmpt @ max amb temp (40C, 104F amb)		133.8	156.1	178.4	200.7	223.0	133.8	156.1															
Vmpt @ max amb temp (45C, 113F amb)		129.8	151.4	173.1	194.7	216.3	129.8	151.4															
Vmpt @ max amb temp (50C, 122F amb)		125.8	146.8	167.7	188.7	209.6	125.8	146.8															
OCV @ 25 deg C cells		222.5	259.6	296.6	333.7	370.8	222.5	259.6															
OCV @ coldest temp (-40C, -40F amb)		274.5	320.3	366.1	411.8	457.6	274.5	320.3															
OCV @ coldest temp (-30C, -22F amb)		265.5	311.0	355.4	399.8	444.2	265.5	311.0															
OCV @ coldest temp (-20C, -4F amb)		258.5	301.6	344.7	387.8	430.9	258.5	301.6															
OCV @ coldest temp (-10C, 14F amb)		250.5	292.3	334.0	375.8	417.5	250.5	292.3															
OCV @ coldest temp (0C, 32F amb)		242.5	282.9	323.3	363.8	404.2	242.5	282.9															
Power @ MPT (STC)		1350	1575	1800	2025	2250	1350	1575	1800	2025	2250	2700	3150										
PTC AC system power rating		1073	1252	1431	1610	1789	1073	1252	1431	1610	1789	2158	2518										
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500															

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Solartech			Power @ MPT		220.0 W																
Module Model		SPM 220P			PTC Power Rating		189.0 W																
Voltage @ MPT (STC)		30.2 VDC			Temp Coeff of Vmp		0.133 V/degC			(Vmp)													
Current @ MPT (STC)		7.32 ADC			Temp Coeff of Voc		0.133 V/degC			(Voc)													
Current, short circuit		36.90 VDC			NOCT (nom. cell temp)		46 deg C			114.8 deg F													
OCV @ 25 deg C cells																							
Modules total in array		5	6	7	8	9	10	12	14	16													
Modules per string		5	6	7	8	9	5	6	7	8													
Strings in Parallel		1	1	1	1	1	1	2	2	2													
Voltage @ MPT (STC)		151.0	181.2	211.4	241.6	271.8	151.0	181.2	211.4	241.6													
Vmpt @ max amb temp (30C, 86F amb)		127.1	152.5	177.9	203.3	228.8	127.1	152.5	177.9	203.3													
Vmpt @ max amb temp (35C, 95F amb)		123.8	148.5	173.3	198.0	222.8	123.8	148.5	173.3	198.0													
Vmpt @ max amb temp (40C, 104F amb)		120.4	144.5	168.6	192.7	216.8	120.4	144.5	168.6	192.7													
Vmpt @ max amb temp (45C, 113F amb)		117.1	140.6	164.0	187.4	210.8	117.1	140.6	164.0	187.4													
Vmpt @ max amb temp (50C, 122F amb)		113.8	136.6	159.3	182.0	204.8	113.8	136.6	159.3	182.0													
OCV @ 25 deg C cells		184.5	221.4	258.3	295.2	332.1	184.5	221.4	258.3	295.2													
OCV @ coldest temp (-40C, -40F amb)		227.7	273.2	318.7	364.3	409.8	227.7	273.2	318.7	364.3													
OCV @ coldest temp (-30C, -22F amb)		221.0	265.2	309.4	353.6	397.9	221.0	265.2	309.4	353.6													
OCV @ coldest temp (-20C, -4F amb)		214.4	257.3	300.1	343.0	385.9	214.4	257.3	300.1	343.0													
OCV @ coldest temp (-10C, 14F amb)		207.7	249.7	290.4	332.1	373.9	207.7	249.7	290.4	332.1													
OCV @ coldest temp (0C, 32F amb)		201.1	241.3	281.5	321.8	362.0	201.1	241.3	281.5	321.8													
Power @ MPT (STC)		1100	1320	1540	1760	1980	1100	1320	1540	1760	1980	2200	2640	3080	3520								
PTC AC system power rating		874	1049	1224	1399	1573	874	1049	1224	1399	1573	1758	2109	2461	2812								
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500														

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Solartech			Power @ MPT		215.0 W																
Module Model		SPM 215P			PTC Power Rating		184.5 W																
Voltage @ MPT (STC)		28.55 VDC			Temp Coeff of Vmp		0.132 V/degC			(Vmp)													
Current @ MPT (STC)		7.54 ADC			Temp Coeff of Voc		0.132 V/degC			(Voc)													
Current, short circuit		36.72 VDC			NOCT (nom. cell temp)		46 deg C			114.8 deg F													
OCV @ 25 deg C cells																							
Modules total in array		6	7	8	9	10	12	14	16														
Modules per string		6	7	8	9	10	7	8															
Strings in Parallel		1	1	1	1	1	1	2	2														
Voltage @ MPT (STC)		171.3	199.9	228.4	257.0	285.5	171.3	199.9	228.4														
Vmpt @ max amb temp (30C, 86F amb)		142.7	166.5	190.3	214.1	237.9	142.7	166.5	190.3														
Vmpt @ max amb temp (35C, 95F amb)		138.8	161.9	185.0	208.2	231.3	138.8	161.9	185.0														
Vmpt @ max amb temp (40C, 104F amb)		134.8	157.3	179.8	202.2	224.7	134.8	157.3	179.8														
Vmpt @ max amb temp (45C, 113F amb)		130.8	152.7	174.5	196.3	218.1	130.8	152.7	174.5														
Vmpt @ max amb temp (50C, 122F amb)		126.9	148.0	169.2	190.3	211.5	126.9	148.0	169.2														
OCV @ 25 deg C cells		220.3	257.0	293.8	330.5	367.2	220.3	257.0	293.8														
OCV @ coldest temp (-40C, -40F amb)		271.9	317.2	362.5	407.8	453.1	271.9	317.2	362.5														
OCV @ coldest temp (-30C, -22F amb)		263.9	307.9	351.9	395.9	439.9	263.9	307.9	351.9														
OCV @ coldest temp (-20C, -4F amb)		256.0	298.7	341.3	384.0	426.7	256.0	298.7	341.3														
OCV @ coldest temp (-10C, 14F amb)		248.1	289.4	330.8	372.1	413.5	248.1	289.4	330.8														
OCV @ coldest temp (0C, 32F amb)		240.1	280.2	320.2	360.2	400.2	240.1	280.2	320.2														
Power @ MPT (STC)		1290	1505	1720	1935	2150	1290	1505	1720	1935	2150	2580	3010	3440									
PTC AC system power rating		1024	1195	1365	1536	1707	1024	1195	1365	1536	1707	2059	2402	2745									
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500															

For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Solartech			Power @ MPT		210.0 W																
Module Model		SPM 210P			PTC Power Rating		180.0 W																
Voltage @ MPT (STC)		28.97 VDC			Temp Coeff of Vmp		0.129 V/degC			(Vmp)													
Current @ MPT (STC)		7.25 ADC			Temp Coeff of Voc		0.129 V/degC			(Voc)													
Current, short circuit		35.90 VDC			NOCT (nom. cell temp)		46 deg C			114.8 deg F													
OCV @ 25 deg C cells																							
Modules total in array		6	7	8	9	10	14	16															
Modules per string		6	7	8	9	10	7	8															
Strings in Parallel		1	1	1	1	1	1	2	2														
Voltage @ MPT (STC)		173.0	202.8	231.8	260.7	289.7	173.0	202.8	231.8														
Vmpt @ max amb temp (30C, 86F amb)		145.9	170.2	194.5	218.9	243.2	145.9	170.2	194.5														
Vmpt @ max amb temp (35C, 95F amb)		142.0	165.7	189.4	213.0	236.7	142.0	165.7	189.4														
Vmpt @ max amb temp (40C, 104F amb)		138.1	161.2	184.2	207.2	230.2	138.1	161.2	184.2														

Module Manufacturer		Solartech		Power @ MPT		205.0 W					
Module Model		SPM 205F		PTC Power Rating		175.1 W					
Voltage @ MPT (STC)		28.35 VDC		PTC Power Rating		175.1 W					
Current @ MPT (STC)		7.24 ADC		Temp Coeff of Vmp		0.131 V/degC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current, short circuit		7.77 ADC		Temp Coeff of Voc		0.131 V/degC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
OCV @ 25 deg C cells		36.42 VDC		NOCT (nom. cell temp)		46 deg C				purple is OK but indicates inverter will limit to 2500W AC continuous output	
Modules total in array		6		7		8		9		10	
Modules per string		6		7		8		9		10	
Strings in Parallel		1		1		1		1		1	
Voltage @ MPT (STC)		170.1		198.5		226.8		255.2		283.5	
Vmp @ max amb temp (30C, 86F amb)		141.8		165.4		189.0		212.7		236.3	
Vmp @ max amb temp (35C, 95F amb)		137.8		160.8		183.8		206.8		229.7	
Vmp @ max amb temp (40C, 104F amb)		133.9		156.2		178.6		200.9		223.2	
Vmp @ max amb temp (45C, 113F amb)		130.0		151.6		173.3		195.0		216.6	
Vmp @ max amb temp (50C, 122F amb)		126.0		147.1		166.1		188.1		210.1	
OCV @ 25 deg C cells		216.5		254.9		291.4		327.8		364.2	
OCV @ coldest temp (-40C, -40F amb)		269.7		314.6		359.5		404.5		449.4	
OCV @ coldest temp (-30C, -22F amb)		261.8		305.4		349.0		392.7		436.3	
OCV @ coldest temp (-20C, -4F amb)		253.9		296.2		338.6		380.9		423.2	
OCV @ coldest temp (-10C, 14F amb)		246.1		287.1		328.1		368.1		410.1	
OCV @ coldest temp (0C, 32F amb)		238.2		277.9		317.6		357.3		397.0	
Power @ MPT (STC)		1230		1435		1640		1845		2050	
PTC AC system power rating		975		1138		1300		1463		1625	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500	

Module Manufacturer		Solartech		Power @ MPT		200.0 W					
Module Model		SPM 200P		PTC Power Rating		171.3 W					
Voltage @ MPT (STC)		28.44 VDC		PTC Power Rating		171.3 W					
Current @ MPT (STC)		7.04 ADC		Temp Coeff of Vmp		0.130 V/degC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current, short circuit		7.62 ADC		Temp Coeff of Voc		0.130 V/degC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
OCV @ 25 deg C cells		36.24 VDC		NOCT (nom. cell temp)		46 deg C				purple is OK but indicates inverter will limit to 2500W AC continuous output	
Modules total in array		6		7		8		9		10	
Modules per string		6		7		8		9		10	
Strings in Parallel		1		1		1		1		1	
Voltage @ MPT (STC)		170.6		199.1		227.5		256.0		284.4	
Vmp @ max amb temp (30C, 86F amb)		142.5		166.2		189.9		213.7		237.4	
Vmp @ max amb temp (35C, 95F amb)		138.5		161.6		184.7		207.8		230.9	
Vmp @ max amb temp (40C, 104F amb)		134.6		157.1		179.5		201.9		224.4	
Vmp @ max amb temp (45C, 113F amb)		130.7		152.5		174.3		196.1		217.9	
Vmp @ max amb temp (50C, 122F amb)		126.8		147.9		169.1		190.2		211.3	
OCV @ 25 deg C cells		217.4		253.7		289.9		326.2		362.4	
OCV @ coldest temp (-40C, -40F amb)		263.3		313.0		357.8		402.5		447.2	
OCV @ coldest temp (-30C, -22F amb)		260.5		303.9		347.3		390.7		434.2	
OCV @ coldest temp (-20C, -4F amb)		252.7		294.8		336.9		379.0		421.1	
OCV @ coldest temp (-10C, 14F amb)		244.8		285.6		326.4		367.3		408.1	
OCV @ coldest temp (0C, 32F amb)		237.0		276.5		316.0		355.5		395.0	
Power @ MPT (STC)		1200		1400		1600		1800		2000	
PTC AC system power rating		951		1109		1268		1426		1585	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500	

Module Manufacturer		Solar World / Shell		Power @ MPT		245.0 W					
Module Model		SW 245 mono		PTC Power Rating		0.0					
Voltage @ MPT (STC)		30.1 VDC		PTC Power Rating		0.0					
Current @ MPT (STC)		8.14 ADC		Temp Coeff of Vmp		0.123 V/degC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current, short circuit		8.78 ADC		Temp Coeff of Voc		0.123 V/degC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
OCV @ 25 deg C cells		37.3 VDC		NOCT (nom. cell temp)		46 deg C				purple is OK but indicates inverter will limit to 2500W AC continuous output	
Modules total in array		5		6		7		8		9	
Modules per string		5		6		7		8		9	
Strings in Parallel		1		1		1		1		1	
Voltage @ MPT (STC)		150.5		180.6		210.7		240.8		270.9	
Vmp @ max amb temp (30C, 86F amb)		128.4		154.0		179.7		205.4		231.0	
Vmp @ max amb temp (35C, 95F amb)		125.3		150.3		175.4		200.5		225.5	
Vmp @ max amb temp (40C, 104F amb)		122.2		146.7		171.1		195.5		220.0	
Vmp @ max amb temp (45C, 113F amb)		119.1		143.0		166.8		190.6		214.4	
Vmp @ max amb temp (50C, 122F amb)		116.0		139.3		162.5		185.7		208.9	
OCV @ 25 deg C cells		186.5		223.8		261.1		298.4		335.7	
OCV @ coldest temp (-40C, -40F amb)		226.5		271.8		317.1		362.4		407.7	
OCV @ coldest temp (-30C, -22F amb)		220.3		264.4		308.5		352.5		396.6	
OCV @ coldest temp (-20C, -4F amb)		214.2		257.0		299.8		342.7		385.5	
OCV @ coldest temp (-10C, 14F amb)		208.0		249.8		292.6		335.4		378.2	
OCV @ coldest temp (0C, 32F amb)		201.9		242.3		282.6		323.0		363.4	
Power @ MPT (STC)		1225		1470		1715		1960		2205	
PTC AC system power rating		0		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500	

Module Manufacturer		Solar World / Shell		Power @ MPT		240.0 W					
Module Model		SW 240 mono		PTC Power Rating		0.0					
Voltage @ MPT (STC)		30 VDC		PTC Power Rating		0.0					
Current @ MPT (STC)		8.02 ADC		Temp Coeff of Vmp		0.122 V/degC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current, short circuit		8.66 ADC		Temp Coeff of Voc		0.122 V/degC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
OCV @ 25 deg C cells		37.1 VDC		NOCT (nom. cell temp)		46 deg C				purple is OK but indicates inverter will limit to 2500W AC continuous output	
Modules total in array		6		7		8		9		12	
Modules per string		6		7		8		9		12	
Strings in Parallel		1		1		1		1		2	
Voltage @ MPT (STC)		180.0		210.0		240.0		270.0		300.0	
Vmp @ max amb temp (30C, 86F amb)		153.6		179.3		204.9		230.5		256.1	
Vmp @ max amb temp (35C, 95F amb)		150.0		175.0		200.0		225.0		250.0	
Vmp @ max amb temp (40C, 104F amb)		146.3		170.7		195.1		219.5		243.9	
Vmp @ max amb temp (45C, 113F amb)		142.7		166.4		190.2		214.0		237.7	
Vmp @ max amb temp (50C, 122F amb)		139.0		162.2		185.3		208.5		232.2	
OCV @ 25 deg C cells		222.6		259.7		296.8		333.9		371.0	
OCV @ coldest temp (-40C, -40F amb)		270.2		315.2		360.2		405.3		450.3	
OCV @ coldest temp (-30C, -22F amb)		263.9		306.7		350.5		394.3		438.1	
OCV @ coldest temp (-20C, -4F amb)		255.5		298.1		340.7		383.3		425.9	
OCV @ coldest temp (-10C, 14F amb)		248.2		289.6		331.0		372.3		413.6	
OCV @ coldest temp (0C, 32F amb)		240.9		281.1		321.2		361.4		401.9	
Power @ MPT (STC)		1440		1680		1920		2160		2400	
PTC AC system power rating		0		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500	

Module Manufacturer		Solar World / Shell		Power @ MPT		235.0 W					
Module Model		SW 235 mono		PTC Power Rating		0.0					
Voltage @ MPT (STC)		29.8 VDC		PTC Power Rating		0.0					
Current @ MPT (STC)		7.89 ADC		Temp Coeff of Vmp		0.122 V/degC		(Vmp)		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Current, short circuit		8.54 ADC		Temp Coeff of Voc		0.122 V/degC		(Voc)		orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),	
OCV @ 25 deg C cells		37 VDC		NOCT (nom. cell temp)		46 deg C				purple is OK but indicates inverter will limit to 2500W AC continuous output	
Modules total in array		6		7		8		9		12	
Modules per string		6		7		8		9		12	
Strings in Parallel		1		1		1		1		2	
Voltage @ MPT (STC)		178.8		208.6		238.4		268.2		298.0	
Vmp @ max amb temp (30C, 86F amb)		152.4		177.9		203.3		228.7		254.1	
Vmp @ max amb temp (35C, 95F amb)		148.8		173.6		198.4		223.2		248.8	
Vmp @ max amb temp (40C, 104F amb)		145.1		169.3		193.5		217.7		242.1	
Vmp @ max amb temp (45C, 113F amb)		141.5		165.0		188.6		212.2		236.5	
Vmp @ max amb temp (50C, 122F amb)		137.8		160.8		183.7		206.7		230.8	
OCV @ 25 deg C cells		222.0		259.0		296.0		333.0		370.0	
OCV @ coldest temp (-40C, -40F amb)		269.6		314.5		359.4		404.4		449.3	
OCV @ coldest temp (-30C, -22F amb)		262.3		306.0		349.7		393.4		437.1	
OCV @ coldest temp (-20C, -4F amb)		254.9		297.4		339.9		382.4		425.9	
OCV @ coldest temp (-10C, 14F amb)		247.6		288.9		330.2		371.4		413.6	
OCV @ coldest temp (0C, 32F amb)		240.3		280.4		320.4		360.5		401.9	
Power @ MPT (STC)		1410		1645		1880		2115		2350	
PTC AC system power rating		0		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800		PVI 2500	

Module Manufacturer		Solar World / Shell					Power @ MPT		230.0 W			
Module Model		SW 230 mono					PTC Power Rating		0.0		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Voltage @ MPT (STC)		29.6 VDC					PTC Power Rating		0.0			
Current @ MPT (STC)		7.76 ADC					Temp Coeff of Vmppt		0.122 V/degC		(Vmppt)	
Current, short circuit		8.42 ADC					Temp Coeff of Vocv		0.122 V/degC		(Vocv)	
OCV @ 25 deg C cells		36.9 VDC					NOCT (nom. cell temp)		46 deg C		114.8 deg F	
Modules total in array	6	7	8	9	10	12	14					
Modules per string	6	7	8	9	10	6	7					
Strings in Parallel	1	1	1	1	1	2	2					
Voltage @ MPT (STC)	177.6	207.2	236.8	266.4	296.0	177.6	207.2					
Vmppt @ max amb temp (30C, 86F amb)	151.2	176.5	201.7	226.9	252.1	151.2	176.5					
Vmppt @ max amb temp (35C, 95F amb)	147.6	172.2	196.8	221.4	246.0	147.6	172.2					
Vmppt @ max amb temp (40C, 104F amb)	143.9	167.9	191.9	215.9	239.9	143.9	167.9					
Vmppt @ max amb temp (45C, 113F amb)	140.3	163.6	187.0	210.4	233.8	140.3	163.6					
Vmppt @ max amb temp (50C, 122F amb)	136.6	159.4	182.1	204.9	227.7	136.6	159.4					
OCV @ 25 deg C cells	221.4	258.3	295.2	332.1	369.0	221.4	258.3					
OCV @ coldest temp (-40C, -40F amb)	269.0	313.8	358.6	403.5	448.3	269.0	313.8					
OCV @ coldest temp (-30C, -22F amb)	261.7	305.3	348.9	392.5	436.1	261.7	305.3					
OCV @ coldest temp (-20C, -4F amb)	254.3	296.7	339.1	381.5	423.9	254.3	296.7					
OCV @ coldest temp (-10C, 14F amb)	247.0	288.2	329.4	370.5	411.7	247.0	288.2					
OCV @ coldest temp (0C, 32F amb)	239.7	279.7	319.6	359.6	399.7	239.7	279.7					
Power @ MPT (STC)	1380	1610	1840	2070	2300	2760	3220					
PTC AC system power rating	0	0	0	0	0	0	0					
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer		Solar World / Shell					Power @ MPT		225.0 W			
Module Model		SW 225 mono					PTC Power Rating		0.0		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Voltage @ MPT (STC)		29.5 VDC					PTC Power Rating		0.0			
Current @ MPT (STC)		7.64 ADC					Temp Coeff of Vmppt		0.121 V/degC		(Vmppt)	
Current, short circuit		8.3 ADC					Temp Coeff of Vocv		0.121 V/degC		(Vocv)	
OCV @ 25 deg C cells		36.8 VDC					NOCT (nom. cell temp)		46 deg C		114.8 deg F	
Modules total in array	6	7	8	9	10	12	14					
Modules per string	6	7	8	9	10	6	7					
Strings in Parallel	1	1	1	1	1	2	2					
Voltage @ MPT (STC)	177.0	206.5	236.0	265.5	295.0	177.0	206.5					
Vmppt @ max amb temp (30C, 86F amb)	150.9	176.0	201.2	226.3	251.4	150.9	176.0					
Vmppt @ max amb temp (35C, 95F amb)	147.2	171.8	196.3	220.9	245.4	147.2	171.8					
Vmppt @ max amb temp (40C, 104F amb)	143.6	167.5	191.5	215.4	239.3	143.6	167.5					
Vmppt @ max amb temp (45C, 113F amb)	140.0	163.3	186.6	210.0	233.3	140.0	163.3					
Vmppt @ max amb temp (50C, 122F amb)	136.3	159.1	181.8	204.5	227.2	136.3	159.1					
OCV @ 25 deg C cells	220.8	257.6	294.4	331.2	368.0	220.8	257.6					
OCV @ coldest temp (-40C, -40F amb)	268.0	312.7	357.3	402.0	446.7	268.0	312.7					
OCV @ coldest temp (-30C, -22F amb)	260.7	304.2	347.6	391.1	434.6	260.7	304.2					
OCV @ coldest temp (-20C, -4F amb)	253.5	295.7	338.0	380.2	422.5	253.5	295.7					
OCV @ coldest temp (-10C, 14F amb)	246.2	287.2	328.3	369.3	410.4	246.2	287.2					
OCV @ coldest temp (0C, 32F amb)	239.0	278.8	318.6	358.4	398.3	239.0	278.8					
Power @ MPT (STC)	1350	1575	1800	2025	2250	2700	3150					
PTC AC system power rating	0	0	0	0	0	0	0					
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500					

Module Manufacturer		Solar World / Shell					Power @ MPT		220.0 W			
Module Model		SW 220 mono					PTC Power Rating		0.0		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Voltage @ MPT (STC)		29.3 VDC					PTC Power Rating		0.0			
Current @ MPT (STC)		7.51 ADC					Temp Coeff of Vmppt		0.121 V/degC		(Vmppt)	
Current, short circuit		8.18 ADC					Temp Coeff of Vocv		0.121 V/degC		(Vocv)	
OCV @ 25 deg C cells		36.6 VDC					NOCT (nom. cell temp)		46 deg C		114.8 deg F	
Modules total in array	6	7	8	9	10	12	14	16				
Modules per string	6	7	8	9	10	6	7	8				
Strings in Parallel	1	1	1	1	1	2	2	2				
Voltage @ MPT (STC)	176.8	205.4	234.4	263.7	293.0	176.8	205.4	234.4				
Vmppt @ max amb temp (30C, 86F amb)	149.7	174.6	199.6	224.5	249.4	149.7	174.6	199.6				
Vmppt @ max amb temp (35C, 95F amb)	146.0	170.4	194.7	219.1	243.4	146.0	170.4	194.7				
Vmppt @ max amb temp (40C, 104F amb)	142.4	166.1	189.9	213.6	237.3	142.4	166.1	189.9				
Vmppt @ max amb temp (45C, 113F amb)	138.8	161.9	185.0	208.2	231.3	138.8	161.9	185.0				
Vmppt @ max amb temp (50C, 122F amb)	135.2	157.7	180.2	202.7	225.2	135.2	157.7	180.2				
OCV @ 25 deg C cells	219.6	256.2	292.8	329.4	366.0	219.6	256.2	292.8				
OCV @ coldest temp (-40C, -40F amb)	266.8	311.3	355.7	400.2	444.7	266.8	311.3	355.7				
OCV @ coldest temp (-30C, -22F amb)	259.5	302.8	346.0	389.3	432.6	259.5	302.8	346.0				
OCV @ coldest temp (-20C, -4F amb)	252.3	294.3	336.4	378.4	420.5	252.3	294.3	336.4				
OCV @ coldest temp (-10C, 14F amb)	245.0	285.8	326.7	367.5	408.3	245.0	285.8	326.7				
OCV @ coldest temp (0C, 32F amb)	237.8	277.4	317.0	356.6	396.3	237.8	277.4	317.0				
Power @ MPT (STC)	1320	1540	1760	1980	2200	2640	3080	3520				
PTC AC system power rating	0	0	0	0	0	0	0	0				
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500				

Module Manufacturer		Solar World / Shell					Power @ MPT		185.0 W			
Module Model		SW 185 mono					PTC Power Rating		172.0 W		For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Voltage @ MPT (STC)		36 VDC					PTC Power Rating		172.0 W			
Current @ MPT (STC)		5.1 ADC					Temp Coeff of Vmppt		0.126 V/degC		(Vmppt)	
Current, short circuit		5.5 ADC					Temp Coeff of Vocv		0.155 V/degC		(Vocv)	
OCV @ 25 deg C cells		44.5 VDC					NOCT (nom. cell temp)		46 deg C		114.8 deg F	
Modules total in array	5	6	7	8	10	12	14	16	15	18		
Modules per string	5	6	7	8	5	6	7	8	5	6		
Strings in Parallel	1	1	1	1	2	2	2	2	3	3		
Voltage @ MPT (STC)	180.0	216.0	252.0	288.0	180.0	216.0	252.0	288.0	180.0	216.0		
Vmppt @ max amb temp (30C, 86F amb)	157.3	188.8	220.2	251.7	157.3	188.8	220.2	251.7	157.3	188.8		
Vmppt @ max amb temp (35C, 95F amb)	154.2	185.0	215.8	246.7	154.2	185.0	215.8	246.7	154.2	185.0		
Vmppt @ max amb temp (40C, 104F amb)	151.0	181.2	211.4	241.6	151.0	181.2	211.4	241.6	151.0	181.2		
Vmppt @ max amb temp (45C, 113F amb)	147.9	177.4	207.0	236.6	147.9	177.4	207.0	236.6	147.9	177.4		
Vmppt @ max amb temp (50C, 122F amb)	144.7	173.7	202.6	231.6	144.7	173.7	202.6	231.6	144.7	173.7		
OCV @ 25 deg C cells	222.5	267.0	311.5	356.0	222.5	267.0	311.5	356.0	222.5	267.0		
OCV @ coldest temp (-40C, -40F amb)	272.9	327.5	382.0	436.6	272.9	327.5	382.0	436.6	272.9	327.5		
OCV @ coldest temp (-30C, -22F amb)	265.1	319.2	371.2	424.2	265.1	319.2	371.2	424.2	265.1	319.2		
OCV @ coldest temp (-20C, -4F amb)	257.4	308.9	360.3	411.8	257.4	308.9	360.3	411.8	257.4	308.9		
OCV @ coldest temp (-10C, 14F amb)	249.6	299.6	349.5	399.4	249.6	299.6	349.5	399.4	249.6	299.6		
OCV @ coldest temp (0C, 32F amb)	241.9	290.3	338.6	387.0	241.9	290.3	338.6	387.0	241.9	290.3		
Power @ MPT (STC)	925	1110	1295	1480	1850	2220	2590	2960	2775	3330		
PTC AC system power rating	796	955	1114	1273	1591	1909	2239	2559	2399	2879		
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer		Solar World / Shell					Power @ MPT		175.0 W			
Module Model		SW 175 monoPT / S0175-PC (or-P)					PTC Power Rating		162.7 W		158.3W for mono/P	
Voltage @ MPT (STC)		35.8 VDC					PTC Power Rating		162.7 W			
Current @ MPT (STC)		4.89 ADC					Temp Coeff of Vmppt		0.125 V/degC		(Vmppt)	
Current, short circuit		5.3 ADC					Temp Coeff of Vocv		0.155 V/degC		(Vocv)	
OCV @ 25 deg C cells		44.4 VDC					NOCT (nom. cell temp)		46 deg C		114.8 deg F	
Modules total in array	5	6	7	8	10	12	14	16	15	18		
Modules per string	5	6	7	8	5	6	7	8	5	6		
Strings in Parallel	1	1	1	1	2	2	2	2	3	3		
Voltage @ MPT (STC)	179.0	214.8	250.6	286.4	179.0	214.8	250.6	286.4	179.0	214.8		
Vmppt @ max amb temp (30C, 86F amb)	156.5	187.8	219.1	250.4	156.5	187.8	219.1	250.4	156.5	187.8		
Vmppt @ max amb temp (35C, 95F amb)	153.4	184.1	214.7	245.4	153.4	184.1	214.7	245.4	153.4	184.1		
Vmppt @ max amb temp (40C, 104F amb)	150.3	180.3	210.4	240.4	150.3	180.3	210.4	240.4	150.3	180.3		
Vmppt @ max amb temp (45C, 113F amb)	147.1	176.6	206.0	235.4	147.1	176.6	206.0	235.4	147.1	176.6		
Vmppt @ max amb temp (50C, 122F amb)	144.0	172.8	201.6	230.4	144.0	172.8	201.6	230.4	144.0	172.8		
OCV @ 25 deg C cells	222.0	266.4	310.8	355.2	222.0	266.4	310.8	355.2	222.0	266.4		
OCV @ coldest temp (-40C, -40F amb)	272.4	326.9	381									

Module Manufacturer		Solar World / Shell		Power @ MPT		165.0 W		140.1W for mom/PT		For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		SW 165 monoT /ISO165-PC (or -P)		PTC Power Rating		154.0 W		140.1W for mom/PT			
Voltage @ MPT (STC)		35.3 VDC		Temp Coeff of Vmpt		0.124 V/degC		(Vmpt)			
Current @ MPT (STC)		4.68 ADC		Temp Coeff of Vocv		0.154 V/degC		(Vocv)			
Current, short circuit		5.1 ADC		NOCT (nom. cell temp)		46 deg C		114.8 deg F			
OCV @ 25 deg C cells		44 VDC									
Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	175.5	211.8	247.1	282.4	176.5	211.8	247.1	282.4	176.5	211.8	247.1
Vmpt @ max amb temp (30C, 86F amb)	154.2	185.0	215.9	246.7	154.2	185.0	215.9	246.7	154.2	185.0	215.9
Vmpt @ max amb temp (35C, 95F amb)	151.1	181.3	211.5	241.7	151.1	181.3	211.5	241.7	151.1	181.3	211.5
Vmpt @ max amb temp (40C, 104F amb)	148.0	177.6	207.2	236.8	148.0	177.6	207.2	236.8	148.0	177.6	207.2
Vmpt @ max amb temp (45C, 113F amb)	144.9	173.9	202.8	231.8	144.9	173.9	202.8	231.8	144.9	173.9	202.8
Vmpt @ max amb temp (50C, 122F amb)	141.8	170.1	198.5	226.8	141.8	170.1	198.5	226.8	141.8	170.1	198.5
OCV @ 25 deg C cells	220.0	264.0	308.0	352.0	220.0	264.0	308.0	352.0	220.0	264.0	308.0
OCV @ coldest temp (-40C, -40F amb)	270.1	324.1	378.1	432.1	270.1	324.1	378.1	432.1	270.1	324.1	378.1
OCV @ coldest temp (-30C, -22F amb)	262.4	314.8	367.3	419.8	262.4	314.8	367.3	419.8	262.4	314.8	367.3
OCV @ coldest temp (-20C, -4F amb)	254.7	305.6	356.5	407.4	254.7	305.6	356.5	407.4	254.7	305.6	356.5
OCV @ coldest temp (-10C, 14F amb)	247.0	296.3	345.7	395.1	247.0	296.3	345.7	395.1	247.0	296.3	345.7
OCV @ coldest temp (0C, 32F amb)	239.3	287.1	335.0	382.8	239.3	287.1	335.0	382.8	239.3	287.1	335.0
Power @ MPT (STC)	825	990	1155	1320	1650	1980	2310	2640	2475	2970	3465
PTC AC system power rating	712	855	997	1140	1425	1709	2005	2292	2148	2578	3008
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		Solar World / Shell		Power @ MPT		160.0 W		139.9W for mom/PT		For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		SQ160-PC		PTC Power Rating		141.5 W		139.9W for mom/PT			
Voltage @ MPT (STC)		35 VDC		Temp Coeff of Vmpt		0.167 V/degC		(Vmpt)			
Current @ MPT (STC)		4.58 ADC		Temp Coeff of Vocv		0.151 V/degC		(Vocv)			
Current, short circuit		4.9 ADC		NOCT (nom. cell temp)		46 deg C		114.8 deg F			
OCV @ 25 deg C cells		43.5 VDC									
Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	175.0	210.0	245.0	280.0	175.0	210.0	245.0	280.0	175.0	210.0	245.0
Vmpt @ max amb temp (30C, 86F amb)	144.9	173.9	202.9	231.9	144.9	173.9	202.9	231.9	144.9	173.9	202.9
Vmpt @ max amb temp (35C, 95F amb)	140.8	168.9	197.1	225.2	140.8	168.9	197.1	225.2	140.8	168.9	197.1
Vmpt @ max amb temp (40C, 104F amb)	136.7	163.9	191.2	218.5	136.7	163.9	191.2	218.5	136.7	163.9	191.2
Vmpt @ max amb temp (45C, 113F amb)	132.4	158.9	185.4	211.9	132.4	158.9	185.4	211.9	132.4	158.9	185.4
Vmpt @ max amb temp (50C, 122F amb)	128.2	153.9	179.5	205.2	128.2	153.9	179.5	205.2	128.2	153.9	179.5
OCV @ 25 deg C cells	217.5	261.0	304.5	348.0	217.5	261.0	304.5	348.0	217.5	261.0	304.5
OCV @ coldest temp (-40C, -40F amb)	269.8	323.8	377.8	431.7	269.8	323.8	377.8	431.7	269.8	323.8	377.8
OCV @ coldest temp (-30C, -22F amb)	261.8	314.1	366.5	418.7	261.8	314.1	366.5	418.7	261.8	314.1	366.5
OCV @ coldest temp (-20C, -4F amb)	253.7	304.5	355.2	406.0	253.7	304.5	355.2	406.0	253.7	304.5	355.2
OCV @ coldest temp (-10C, 14F amb)	245.7	294.8	343.9	393.1	245.7	294.8	343.9	393.1	245.7	294.8	343.9
OCV @ coldest temp (0C, 32F amb)	237.6	285.2	332.7	380.2	237.6	285.2	332.7	380.2	237.6	285.2	332.7
Power @ MPT (STC)	800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360
PTC AC system power rating	654	785	916	1047	1309	1571	1842	2106	1974	2369	2774
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		Solar World / Shell		Power @ MPT		155.0 W		139.9W for mom/PT		For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		SW 155 monoT /ISO165-PC (or -P)		PTC Power Rating		143.8 W		139.9W for mom/PT			
Voltage @ MPT (STC)		34.8 VDC		Temp Coeff of Vmpt		0.124 V/degC		(Vmpt)			
Current @ MPT (STC)		4.46 ADC		Temp Coeff of Vocv		0.154 V/degC		(Vocv)			
Current, short circuit		4.9 ADC		NOCT (nom. cell temp)		46 deg C		114.8 deg F			
OCV @ 25 deg C cells		43.6 VDC									
Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	174.0	208.8	243.6	278.4	174.0	208.8	243.6	278.4	174.0	208.8	243.6
Vmpt @ max amb temp (30C, 86F amb)	151.7	182.0	212.4	242.7	151.7	182.0	212.4	242.7	151.7	182.0	212.4
Vmpt @ max amb temp (35C, 95F amb)	148.6	178.3	208.0	237.7	148.6	178.3	208.0	237.7	148.6	178.3	208.0
Vmpt @ max amb temp (40C, 104F amb)	145.5	174.6	203.7	232.8	145.5	174.6	203.7	232.8	145.5	174.6	203.7
Vmpt @ max amb temp (45C, 113F amb)	142.4	170.9	199.3	227.8	142.4	170.9	199.3	227.8	142.4	170.9	199.3
Vmpt @ max amb temp (50C, 122F amb)	139.3	167.1	195.0	222.8	139.3	167.1	195.0	222.8	139.3	167.1	195.0
OCV @ 25 deg C cells	218.0	261.6	305.2	348.8	218.0	261.6	305.2	348.8	218.0	261.6	305.2
OCV @ coldest temp (-40C, -40F amb)	268.1	321.7	375.3	428.9	268.1	321.7	375.3	428.9	268.1	321.7	375.3
OCV @ coldest temp (-30C, -22F amb)	260.4	312.4	364.5	416.6	260.4	312.4	364.5	416.6	260.4	312.4	364.5
OCV @ coldest temp (-20C, -4F amb)	252.7	303.2	353.7	404.2	252.7	303.2	353.7	404.2	252.7	303.2	353.7
OCV @ coldest temp (-10C, 14F amb)	245.0	293.9	342.9	391.9	245.0	293.9	342.9	391.9	245.0	293.9	342.9
OCV @ coldest temp (0C, 32F amb)	237.3	284.7	332.2	379.6	237.3	284.7	332.2	379.6	237.3	284.7	332.2
Power @ MPT (STC)	775	930	1085	1240	1550	1860	2170	2480	2325	2790	3255
PTC AC system power rating	665	798	931	1064	1330	1596	1872	2140	2006	2407	2808
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		Solar World / Shell		Power @ MPT		150.0 W		139.9W for mom/PT		For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		SP150-PC (or -P)		PTC Power Rating		131.7 W		139.9W for mom/PT			
Voltage @ MPT (STC)		34 VDC		Temp Coeff of Vmpt		0.152 V/degC		(Vmpt)			
Current @ MPT (STC)		4.4 ADC		Temp Coeff of Vocv		0.152 V/degC		(Vocv)			
Current, short circuit		4.8 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F			
OCV @ 25 deg C cells		43.4 VDC									
Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	170.0	204.0	238.0	272.0	170.0	204.0	238.0	272.0	170.0	204.0	238.0
Vmpt @ max amb temp (30C, 86F amb)	143.4	172.1	200.8	229.4	143.4	172.1	200.8	229.4	143.4	172.1	200.8
Vmpt @ max amb temp (35C, 95F amb)	139.6	167.5	195.4	223.4	139.6	167.5	195.4	223.4	139.6	167.5	195.4
Vmpt @ max amb temp (40C, 104F amb)	135.8	163.0	190.1	217.3	135.8	163.0	190.1	217.3	135.8	163.0	190.1
Vmpt @ max amb temp (45C, 113F amb)	132.0	158.4	184.8	211.2	132.0	158.4	184.8	211.2	132.0	158.4	184.8
Vmpt @ max amb temp (50C, 122F amb)	128.2	153.8	179.5	205.1	128.2	153.8	179.5	205.1	128.2	153.8	179.5
OCV @ 25 deg C cells	217.0	260.4	303.8	347.2	217.0	260.4	303.8	347.2	217.0	260.4	303.8
OCV @ coldest temp (-40C, -40F amb)	266.4	319.7	373.0	426.4	266.4	319.7	373.0	426.4	266.4	319.7	373.0
OCV @ coldest temp (-30C, -22F amb)	258.8	310.6	362.3	414.1	258.8	310.6	362.3	414.1	258.8	310.6	362.3
OCV @ coldest temp (-20C, -4F amb)	251.2	301.4	351.7	401.9	251.2	301.4	351.7	401.9	251.2	301.4	351.7
OCV @ coldest temp (-10C, 14F amb)	243.6	292.3	341.0	389.8	243.6	292.3	341.0	389.8	243.6	292.3	341.0
OCV @ coldest temp (0C, 32F amb)	236.0	283.2	330.4	377.6	236.0	283.2	330.4	377.6	236.0	283.2	330.4
Power @ MPT (STC)	750	900	1050	1200	1500	1800	2100	2400	2250	2700	3150
PTC AC system power rating	609	731	853	975	1218	1462	1715	1960	1837	2205	2572
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500

Module Manufacturer		Solar World / Shell		Power @ MPT		140.0 W		139.9W for mom/PT		For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output	
Module Model		SF140-PC (or -P)		PTC Power Rating		122.8 W		139.9W for mom/PT			
Voltage @ MPT (STC)		33 VDC		Temp Coeff of Vmpt		0.152 V/degC		(Vmpt)			
Current @ MPT (STC)		4.25 ADC		Temp Coeff of Vocv		0.152 V/degC		(Vocv)			
Current, short circuit		4.7 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F			
OCV @ 25 deg C cells		42.8 VDC									
Modules total in array	5	6	7	8	10	12	14	16	15	18	21
Modules per string	5	6	7	8	5	6	7	8	5	6	7
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3
Voltage @ MPT (STC)	165.0	198.0	231.0	264.0	165.0	198.0	231.0	264.0	165.0	198.0	231.0
Vmpt @ max amb temp (30C, 86F amb)	138.4	166.1	193.8	221.4	138.4	166.1	193.8	221.4	138.4	166.1	193.8
Vmpt @ max amb temp (35C, 95F amb)	134.6	161.5	188.4	215.4	134.6	161.5	188.4	215.4	134.6	161.5	188.4
Vmpt @ max amb temp (40C, 104F amb)	130.8	157.0	183.								

Module Manufacturer	Solendra				Power @ MPT	200.0 W		
Module Model	SL-001-200				PTC Power Rating	189.6 W		
Voltage @ MPT (STC)	76.3 VDC				Temp Coeff of Vmpt	0.239 V/dgC	(Vmpt)	
Current @ MPT (STC)	2.55 ADC				Temp Coeff of Vocv	0.239 V/dgC	(Vocv)	
Current, short circuit	2.78 ADC				NOCT (nom. cell temp)	41.7 deg C		107.06 deg F
OCV @ 25 deg C cells	99.7 VDC							
Modules total in array	6	9	8	12	10	15	12	14
Modules per string	2	3	2	3	2	3	2	2
Strings in Parallel	3	3	4	4	5	5	6	7
Voltage @ MPT (STC)	156.6	234.9	156.6	234.9	156.6	234.9	156.6	156.6
Vmpt @ max amb temp (30C, 86F amb)	141.4	212.2	141.4	212.2	141.4	212.2	141.4	141.4
Vmpt @ max amb temp (35C, 95F amb)	139.1	208.6	139.1	208.6	139.1	208.6	139.1	139.1
Vmpt @ max amb temp (40C, 104F amb)	136.7	205.0	136.7	205.0	136.7	205.0	136.7	136.7
Vmpt @ max amb temp (45C, 113F amb)	134.3	201.4	134.3	201.4	134.3	201.4	134.3	134.3
Vmpt @ max amb temp (50C, 122F amb)	131.9	197.8	131.9	197.8	131.9	197.8	131.9	131.9
OCV @ 25 deg C cells	190.4	299.1	190.4	299.1	199.4	299.1	190.4	190.4
OCV @ coldest temp (-40C, -40F amb)	230.5	345.7	230.5	345.7	230.5	345.7	230.5	230.5
OCV @ coldest temp (-30C, -22F amb)	225.7	338.5	225.7	338.5	225.7	338.5	225.7	225.7
OCV @ coldest temp (-20C, -4F amb)	220.9	331.4	220.9	331.4	220.9	331.4	220.9	220.9
OCV @ coldest temp (-10C, 14F amb)	216.1	324.2	216.1	324.2	216.1	324.2	216.1	216.1
OCV @ coldest temp (0C, 32F amb)	211.4	317.0	211.4	317.0	211.4	317.0	211.4	211.4
Power @ MPT (STC)	1200	1800	1600	2400	2000	3000	2400	2800
PTC AC system power rating	1052	1578	1403	2105	1754	2631	2105	2455
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	

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Module Manufacturer	Solendra				Power @ MPT	191.0 W		
Module Model	SL-001-191				PTC Power Rating	181.0 W		
Voltage @ MPT (STC)	76.1 VDC				Temp Coeff of Vmpt	0.236 V/dgC	(Vmpt)	
Current @ MPT (STC)	2.51 ADC				Temp Coeff of Vocv	0.236 V/dgC	(Vocv)	
Current, short circuit	2.77 ADC				NOCT (nom. cell temp)	41.7 deg C		107.06 deg F
OCV @ 25 deg C cells	98.2 VDC							
Modules total in array	6	9	8	12	10	15	12	14
Modules per string	2	3	2	3	2	3	2	2
Strings in Parallel	3	3	4	4	5	5	6	7
Voltage @ MPT (STC)	152.2	228.3	152.2	228.3	152.2	228.3	152.2	152.2
Vmpt @ max amb temp (30C, 86F amb)	137.2	205.9	137.2	205.9	137.2	205.9	137.2	137.2
Vmpt @ max amb temp (35C, 95F amb)	134.9	202.3	134.9	202.3	134.9	202.3	134.9	134.9
Vmpt @ max amb temp (40C, 104F amb)	132.5	198.8	132.5	198.8	132.5	198.8	132.5	132.5
Vmpt @ max amb temp (45C, 113F amb)	130.2	195.2	130.2	195.2	130.2	195.2	130.2	130.2
Vmpt @ max amb temp (50C, 122F amb)	127.8	191.7	127.8	191.7	127.8	191.7	127.8	127.8
OCV @ 25 deg C cells	196.4	294.6	196.4	294.6	196.4	294.6	196.4	196.4
OCV @ coldest temp (-40C, -40F amb)	227.1	340.6	227.1	340.6	227.1	340.6	227.1	227.1
OCV @ coldest temp (-30C, -22F amb)	222.4	333.5	222.4	333.5	222.4	333.5	222.4	222.4
OCV @ coldest temp (-20C, -4F amb)	217.6	326.5	217.6	326.5	217.6	326.5	217.6	217.6
OCV @ coldest temp (-10C, 14F amb)	212.9	319.4	212.9	319.4	212.9	319.4	212.9	212.9
OCV @ coldest temp (0C, 32F amb)	208.2	312.3	208.2	312.3	208.2	312.3	208.2	208.2
Power @ MPT (STC)	1146	1719	1528	2292	1910	2865	2292	2674
PTC AC system power rating	1005	1507	1339	2009	1674	2511	2009	2344
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	

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Module Manufacturer	Solendra				Power @ MPT	182.0 W		
Module Model	SL-001-192				PTC Power Rating	172.4 W		
Voltage @ MPT (STC)	73.9 VDC				Temp Coeff of Vmpt	0.232 V/dgC	(Vmpt)	
Current @ MPT (STC)	2.46 ADC				Temp Coeff of Vocv	0.232 V/dgC	(Vocv)	
Current, short circuit	2.76 ADC				NOCT (nom. cell temp)	41.7 deg C		107.06 deg F
OCV @ 25 deg C cells	96.7 VDC							
Modules total in array	6	9	8	12	10	15	12	14
Modules per string	2	3	2	3	2	3	2	2
Strings in Parallel	3	3	4	4	5	5	6	7
Voltage @ MPT (STC)	147.8	221.7	147.8	221.7	147.8	221.7	147.8	147.8
Vmpt @ max amb temp (30C, 86F amb)	133.1	199.6	133.1	199.6	133.1	199.6	133.1	133.1
Vmpt @ max amb temp (35C, 95F amb)	130.8	196.2	130.8	196.2	130.8	196.2	130.8	130.8
Vmpt @ max amb temp (40C, 104F amb)	128.5	192.7	128.5	192.7	128.5	192.7	128.5	128.5
Vmpt @ max amb temp (45C, 113F amb)	126.1	189.2	126.1	189.2	126.1	189.2	126.1	126.1
Vmpt @ max amb temp (50C, 122F amb)	123.8	185.7	123.8	185.7	123.8	185.7	123.8	123.8
OCV @ 25 deg C cells	193.4	290.1	193.4	290.1	193.4	290.1	193.4	193.4
OCV @ coldest temp (-40C, -40F amb)	223.6	335.3	223.6	335.3	223.6	335.3	223.6	223.6
OCV @ coldest temp (-30C, -22F amb)	218.9	328.4	218.9	328.4	218.9	328.4	218.9	218.9
OCV @ coldest temp (-20C, -4F amb)	214.3	321.4	214.3	321.4	214.3	321.4	214.3	214.3
OCV @ coldest temp (-10C, 14F amb)	209.6	314.5	209.6	314.5	209.6	314.5	209.6	209.6
OCV @ coldest temp (0C, 32F amb)	205.0	307.5	205.0	307.5	205.0	307.5	205.0	205.0
Power @ MPT (STC)	1092	1638	1456	2184	1820	2730	2184	2548
PTC AC system power rating	957	1435	1276	1914	1595	2392	1914	2233
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	

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Module Manufacturer	Solendra				Power @ MPT	173.0 W		
Module Model	SL-001-173				PTC Power Rating	163.8 W		
Voltage @ MPT (STC)	71.7 VDC				Temp Coeff of Vmpt	0.228 V/dgC	(Vmpt)	
Current @ MPT (STC)	2.41 ADC				Temp Coeff of Vocv	0.228 V/dgC	(Vocv)	
Current, short circuit	2.75 ADC				NOCT (nom. cell temp)	41.7 deg C		107.06 deg F
OCV @ 25 deg C cells	95.2 VDC							
Modules total in array	6	9	8	12	10	15	12	14
Modules per string	2	3	2	3	2	3	2	2
Strings in Parallel	3	3	4	4	5	5	6	7
Voltage @ MPT (STC)	143.4	215.1	143.4	215.1	143.4	215.1	143.4	143.4
Vmpt @ max amb temp (30C, 86F amb)	128.9	193.4	128.9	193.4	128.9	193.4	128.9	128.9
Vmpt @ max amb temp (35C, 95F amb)	126.7	189.0	126.7	189.0	126.7	189.0	126.7	126.7
Vmpt @ max amb temp (40C, 104F amb)	124.4	186.6	124.4	186.6	124.4	186.6	124.4	124.4
Vmpt @ max amb temp (45C, 113F amb)	122.1	183.2	122.1	183.2	122.1	183.2	122.1	122.1
Vmpt @ max amb temp (50C, 122F amb)	119.8	179.7	119.8	179.7	119.8	179.7	119.8	119.8
OCV @ 25 deg C cells	190.4	285.6	190.4	285.6	190.4	285.6	190.4	190.4
OCV @ coldest temp (-40C, -40F amb)	220.0	330.1	220.0	330.1	220.0	330.1	220.0	220.0
OCV @ coldest temp (-30C, -22F amb)	215.5	323.2	215.5	323.2	215.5	323.2	215.5	215.5
OCV @ coldest temp (-20C, -4F amb)	210.9	316.4	210.9	316.4	210.9	316.4	210.9	210.9
OCV @ coldest temp (-10C, 14F amb)	206.4	309.5	206.4	309.5	206.4	309.5	206.4	206.4
OCV @ coldest temp (0C, 32F amb)	201.8	302.7	201.8	302.7	201.8	302.7	201.8	201.8
Power @ MPT (STC)	1038	1557	1384	2076	1730	2595	2076	2422
PTC AC system power rating	909	1364	1212	1818	1515	2273	1818	2121
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 1800	PVI 2500	PVI 2500	

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Module Manufacturer	Solendra				Power @ MPT	165.0 W		
Module Model	SL-001-165				PTC Power Rating	156.1 W		
Voltage @ MPT (STC)	69.6 VDC				Temp Coeff of Vmpt	0.225 V/dgC	(Vmpt)	
Current @ MPT (STC)	2.37 ADC				Temp Coeff of Vocv	0.225 V/dgC	(Vocv)	
Current, short circuit	2.74 ADC				NOCT (nom. cell temp)	41.7 deg C		107.06 deg F
OCV @ 25 deg C cells	93.9 VDC							
Modules total in array	6	8	9	12	12	16	15	18
Modules per string	3	4	3	4	3	4	3	3
Strings in Parallel	2	2	3	3	4	4	5	6
Voltage @ MPT (STC)	208.8	278.4	208.8	278.4	208.8	278.4	208.8	208.8
Vmpt @ max amb temp (30C, 86F amb)	187.4	249.9	187.4	249.9	187.4	249.9	187.4	187.4
Vmpt @ max amb temp (35C, 95F amb)	184.0	245.4	184.0	245.4	184.0	245.4	184.0	184.0
Vmpt @ max amb temp (40C, 104F amb)	180.7	240.9	180.7	240.9	180.7	240.9	180.7	180.7
Vmpt @ max amb temp (45C, 113F amb)	177.3	236.4	177.3	236.4	177.3	236.4	177.3	177.3
Vmpt @ max amb temp (50C, 122F amb)	173.9	231.9	173.9	231.9	173.9	231.9	173.9	173.9
OCV @ 25 deg C cells	281.7	375.6	281.7	375.6	281.7	375.6	281.7	281.7
OCV @ coldest temp (-40C, -40F amb)	325.6	434.1	325.6	434.1	325.6	434.1	325.6	325.6
OCV @ coldest temp (-30C, -22F amb)	318.8	425.1	318.8	425.1	318.8	425.1	318.8	318.8
OCV @ coldest temp (-20C, -4F amb)	312.1	416.1	312.1	416.1	312.1	416.1	312.1	312.1
OCV @ coldest temp (-10C, 14F amb)	305.3	407.1	305.3	407.1	305.3	407.1	305.3	305.3
OCV @ coldest temp (0C, 32F amb)	298.6	398.1	298.6	398.1	298.6	398.1	298.6	298.6
Power @ MPT (STC)	990	1320	1485	1980	1980	2640	2475	2970
PTC AC system power rating	866	1155	1300	1733	1733	2310	2166	2599
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	

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Module Manufacturer		Solyndra		Power @ MPT		157.0 W			
Module Model		SL-001-157		PTC Power Rating		148.5 W			
Voltage @ MPT (STC)		67.5 VDC		Temp Coeff of Vmp		0.222 V/dgC		(Vmp)	
Current @ MPT (STC)		2.33 ADC		Temp Coeff of Voc		0.222 V/dgC		(Voc)	
Current, short circuit		2.73 ADC		NOCT (nom. cell temp)		41.7 deg C		107.06 deg F	
OCV @ 25 deg C cells		92.5 VDC							
Modules total in array	6	8	9	12	12	16	15	18	
Modules per string	3	4	3	4	3	4	3	4	3
Strings in Parallel	2	2	3	3	4	4	5	6	
Voltage @ MPT (STC)		202.5		270.0		202.5		270.0	
Vmp @ max amb temp (30C, 86F amb)		181.4		241.9		181.4		241.9	
Vmp @ max amb temp (35C, 95F amb)		178.1		237.4		178.1		237.4	
Vmp @ max amb temp (40C, 104F amb)		174.7		233.0		174.7		233.0	
Vmp @ max amb temp (45C, 113F amb)		171.4		228.5		171.4		228.5	
Vmp @ max amb temp (50C, 122F amb)		168.1		224.1		168.1		224.1	
OCV @ 25 deg C cells		377.5		370.0		277.5		370.0	
OCV @ coldest temp (-40C, -40F amb)		320.8		427.7		320.8		427.7	
OCV @ coldest temp (-30C, -22F amb)		314.1		418.8		314.1		418.8	
OCV @ coldest temp (-20C, -4F amb)		307.5		410.0		307.5		410.0	
OCV @ coldest temp (-10C, 14F amb)		300.8		401.1		300.8		401.1	
OCV @ coldest temp (0C, 32F amb)		294.2		392.2		294.2		392.2	
Power @ MPT (STC)		942		1256		1413		1884	
PTC AC system power rating		824		1099		1236		1648	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800	

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Module Manufacturer		Solyndra		Power @ MPT		150.0 W			
Module Model		SL-001-150		PTC Power Rating		141.8 W			
Voltage @ MPT (STC)		65.7 VDC		Temp Coeff of Vmp		0.219 V/dgC		(Vmp)	
Current @ MPT (STC)		2.28 ADC		Temp Coeff of Voc		0.219 V/dgC		(Voc)	
Current, short circuit		2.72 ADC		NOCT (nom. cell temp)		41.7 deg C		107.06 deg F	
OCV @ 25 deg C cells		91.4 VDC							
Modules total in array	6	8	9	12	12	16	15	20	18
Modules per string	3	4	3	4	3	4	3	4	3
Strings in Parallel	2	2	3	3	4	4	5	6	
Voltage @ MPT (STC)		197.1		262.8		197.1		262.8	
Vmp @ max amb temp (30C, 86F amb)		176.3		235.0		176.3		235.0	
Vmp @ max amb temp (35C, 95F amb)		173.0		230.7		173.0		230.7	
Vmp @ max amb temp (40C, 104F amb)		169.7		226.3		169.7		226.3	
Vmp @ max amb temp (45C, 113F amb)		166.4		221.9		166.4		221.9	
Vmp @ max amb temp (50C, 122F amb)		163.1		217.5		163.1		217.5	
OCV @ 25 deg C cells		274.2		365.6		274.2		365.6	
OCV @ coldest temp (-40C, -40F amb)		316.9		422.5		316.9		422.5	
OCV @ coldest temp (-30C, -22F amb)		310.3		413.3		310.3		413.3	
OCV @ coldest temp (-20C, -4F amb)		303.8		405.0		303.8		405.0	
OCV @ coldest temp (-10C, 14F amb)		297.2		396.3		297.2		396.3	
OCV @ coldest temp (0C, 32F amb)		290.6		387.5		290.6		387.5	
Power @ MPT (STC)		900		1200		1350		1800	
PTC AC system power rating		797		1049		1190		1574	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800	

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Module Manufacturer		Spire		Power @ MPT		80.0 W			
Module Model		SSC80		PTC Power Rating		0.0 W			
Voltage @ MPT (STC)		17 VDC		Temp Coeff of Vmp		0.082 V/dgC		(Vmp)	
Current @ MPT (STC)		4.45 ADC		Temp Coeff of Voc		0.08 V/dgC		(Voc)	
Current, short circuit		4.75 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F	
OCV @ 25 deg C cells		21.4 VDC							
Modules total in array	10	11	12	13	14	15	16	18	20
Modules per string	1	1	1	1	1	1	1	1	1
Strings in Parallel	1	1	1	1	1	1	1	1	1
Voltage @ MPT (STC)		170.0		187.0		204.0		221.0	
Vmp @ max amb temp (30C, 86F amb)		139.7		153.6		167.6		181.6	
Vmp @ max amb temp (35C, 95F amb)		136.6		149.1		162.7		176.2	
Vmp @ max amb temp (40C, 104F amb)		133.5		144.6		157.8		170.9	
Vmp @ max amb temp (45C, 113F amb)		130.4		140.1		152.8		165.9	
Vmp @ max amb temp (50C, 122F amb)		127.3		135.6		147.5		160.2	
OCV @ 25 deg C cells		214.0		235.4		256.8		278.2	
OCV @ coldest temp (-40C, -40F amb)		266.0		292.6		319.2		345.8	
OCV @ coldest temp (-30C, -22F amb)		258.0		283.8		309.6		335.4	
OCV @ coldest temp (-20C, -4F amb)		250.0		275.0		300.0		325.0	
OCV @ coldest temp (-10C, 14F amb)		242.0		266.2		290.4		314.6	
OCV @ coldest temp (0C, 32F amb)		234.0		257.4		280.8		304.2	
Power @ MPT (STC)		800		880		960		1040	
PTC AC system power rating		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800	

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Module Manufacturer		Suntech		Power @ MPT		280.0 W			
Module Model		STP280(S)-24Vb-1		PTC Power Rating		252.0 0.0 W*			
Voltage @ MPT (STC)		36.2 VDC		Temp Coeff of Vmp		0.152 V/dgC		(Vmp)	
Current @ MPT (STC)		7.95 ADC		Temp Coeff of Voc		0.152 V/dgC		(Voc)	
Current, short circuit		8.33 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		48.8 VDC							
Modules total in array	5	6	7	8	10	12			
Modules per string	5	6	7	8	10	12			
Strings in Parallel	1	1	1	1	2	2			
Voltage @ MPT (STC)		176.0		211.2		246.4		281.6	
Vmp @ max amb temp (30C, 86F amb)		149.3		179.2		209.1		239.0	
Vmp @ max amb temp (35C, 95F amb)		145.5		174.6		203.8		232.9	
Vmp @ max amb temp (40C, 104F amb)		141.7		170.1		198.4		226.8	
Vmp @ max amb temp (45C, 113F amb)		137.9		165.5		193.1		220.7	
Vmp @ max amb temp (50C, 122F amb)		134.1		160.9		187.8		214.6	
OCV @ 25 deg C cells		224.0		268.8		313.6		358.4	
OCV @ coldest temp (-40C, -40F amb)		273.5		328.2		382.9		437.6	
OCV @ coldest temp (-30C, -22F amb)		265.9		319.1		372.2		425.4	
OCV @ coldest temp (-20C, -4F amb)		258.3		309.9		361.6		413.2	
OCV @ coldest temp (-10C, 14F amb)		250.7		300.8		350.9		401.0	
OCV @ coldest temp (0C, 32F amb)		243.0		291.6		340.3		388.9	
Power @ MPT (STC)		1400		1680		1960		2240	
PTC AC system power rating (STP280)		1166		1399		1632		1865	
PTC AC system power rating (STP180S)		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 162.5W for the STP-180-24Ab-1, the STP-180S-24Ab-1 has a PTC power of 159.1W

Module Manufacturer		Suntech		Power @ MPT		270.0 W			
Module Model		STP270(S)-24Vb-1		PTC Power Rating		242.8 0.0 W*			
Voltage @ MPT (STC)		35.0 VDC		Temp Coeff of Vmp		0.152 V/dgC		(Vmp)	
Current @ MPT (STC)		7.71 ADC		Temp Coeff of Voc		0.152 V/dgC		(Voc)	
Current, short circuit		8.14 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F	
OCV @ 25 deg C cells		44.8 VDC							
Modules total in array	5	6	7	8	10	12			
Modules per string	5	6	7	8	10	12			
Strings in Parallel	1	1	1	1	2	2			
Voltage @ MPT (STC)		175.0		210.0		245.0		280.0	
Vmp @ max amb temp (30C, 86F amb)		148.3		178.0		207.7		237.4	
Vmp @ max amb temp (35C, 95F amb)		144.5		173.4		202.4		231.3	
Vmp @ max amb temp (40C, 104F amb)		140.7		168.9		197.0		225.2	
Vmp @ max amb temp (45C, 113F amb)		136.9		164.3		191.7		219.1	
Vmp @ max amb temp (50C, 122F amb)		133.1		159.7		186.4		213.0	
OCV @ 25 deg C cells		224.0		268.8		313.6		358.4	
OCV @ coldest temp (-40C, -40F amb)		273.5		328.2		382.9		437.6	
OCV @ coldest temp (-30C, -22F amb)		265.9		319.1		372.2		425.4	
OCV @ coldest temp (-20C, -4F amb)		258.3		309.9		361.6		413.2	
OCV @ coldest temp (-10C, 14F amb)		250.7		300.8		350.9		401.0	
OCV @ coldest temp (0C, 32F amb)		243.0		291.6		340.3		388.9	
Power @ MPT (STC)		1400		1680		1960		2240	
PTC AC system power rating (STP270)		1123		1348		1572		1797	
PTC AC system power rating (STP270S)		0		0		0		0	
Suggested inverter		PVI 1800		PVI 1800		PVI 1800		PVI 1800	

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 162.5W for the STP-180-24Ab-1, the STP-180S-24Ab-1 has a PTC power of 159.1W

Module Manufacturer Suntech
Module Model STP260(S)-24/Vb-1
Voltage @ MPT (STC) 25 VDC
Current @ MPT (STC) 7.43 ADC
Current, short circuit 8.04 ADC
OCV @ 25 deg C cells 44.3 VDC
Power @ MPT PTC Power Rating 260.0 W
Temp Coeff of Vmpt 233.0 W
Temp Coeff of Vocv 0.151 V/degC
NOCT (nom. cell temp) 45 deg C
113 deg F
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W

Module Manufacturer Suntech
Module Model STP210(S)-24(18)JU-1
Voltage @ MPT (STC) 26.4 VDC
Current @ MPT (STC) 7.95 ADC
Current, short circuit 8.33 ADC
OCV @ 25 deg C cells 33.6 VDC
Power @ MPT PTC Power Rating 210.0 W
Temp Coeff of Vmpt 188.5 W
Temp Coeff of Vocv 0.089 V/degC
NOCT (nom. cell temp) 45 deg C
113 deg F
* PTC power rating is 188.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 189.0W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 157.8W for the STP-175-24/Ab-1, the STP-175S-24/Ab-1 has a PTC power of 154.5W

Module Manufacturer Suntech
Module Model STP200(S)-24(18)JU-1
Voltage @ MPT (STC) 26.2 VDC
Current @ MPT (STC) 7.63 ADC
Current, short circuit 8.12 ADC
OCV @ 25 deg C cells 33.4 VDC
Power @ MPT PTC Power Rating 200.0 W
Temp Coeff of Vmpt 179.8 W
Temp Coeff of Vocv 0.089 V/degC
NOCT (nom. cell temp) 45 deg C
113 deg F
* PTC power rating is 179.8W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 179.3W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 157.8W for the STP-175-24/Ab-1, the STP-175S-24/Ab-1 has a PTC power of 154.5W

Module Manufacturer Suntech
Module Model STP190(S)-24(18)JU-1
Voltage @ MPT (STC) 26 VDC
Current @ MPT (STC) 7.31 ADC
Current, short circuit 7.89 ADC
OCV @ 25 deg C cells 33 VDC
Power @ MPT PTC Power Rating 190.0 W
Temp Coeff of Vmpt 170.6 W
Temp Coeff of Vocv 0.113 V/degC
NOCT (nom. cell temp) 45 deg C
113 deg F
* PTC power rating is 170.6W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 170.2W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 157.8W for the STP-175-24/Ab-1, the STP-175S-24/Ab-1 has a PTC power of 154.5W

Module Manufacturer Suntech
Module Model STP180(S)-24/Ab-1
Voltage @ MPT (STC) 35.6 VDC
Current @ MPT (STC) 5.05 ADC
Current, short circuit 5.4 ADC
OCV @ 25 deg C cells 44.4 VDC
Power @ MPT PTC Power Rating 180.0 W
Temp Coeff of Vmpt 162.5 W
Temp Coeff of Vocv 0.155 V/degC
NOCT (nom. cell temp) 48 deg C
118.4 deg F
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W

Module Manufacturer Suntech
Module Model STP175(S)-24/Ab-1
Voltage @ MPT (STC) 35.2 VDC
Current @ MPT (STC) 4.95 ADC
Current, short circuit 5.2 ADC
OCV @ 25 deg C cells 44.2 VDC
Power @ MPT PTC Power Rating 175.0 W
Temp Coeff of Vmpt 157.8 / 154.5 W/m
Temp Coeff of Vocv 0.155 V/degC (Vocv)
NOCT (nom. cell temp) 48 deg C 118.4 deg F
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Modules total in array 5 6 7 8 10 12 14 16 15 18 21
Modules per string 5 6 7 8 5 6 7 8 5 6 7
Strings in Parallel 1 1 1 1 2 2 2 2 3 3 3
Voltage @ MPT (STC) 176.0 211.2 246.4 281.6 176.0 211.2 246.4 281.6 176.0 211.2 246.4
Vmpt @ max amb temp (30C, 86F amb) 146.6 175.9 205.2 234.5 146.6 175.9 205.2 234.5 146.6 175.9 205.2
Vmpt @ max amb temp (35C, 95F amb) 142.7 171.2 199.7 228.3 142.7 171.2 199.7 228.3 142.7 171.2 199.7
Vmpt @ max amb temp (40C, 104F amb) 138.8 166.6 194.3 222.1 138.8 166.6 194.3 222.1 138.8 166.6 194.3
Vmpt @ max amb temp (45C, 113F amb) 134.9 161.9 188.9 215.9 134.9 161.9 188.9 215.9 134.9 161.9 188.9
Vmpt @ max amb temp (50C, 122F amb) 131.1 157.3 183.5 209.7 131.1 157.3 183.5 209.7 131.1 157.3 183.5
OCV @ 25 deg C cells 221.0 265.2 309.4 353.6 221.0 265.2 309.4 353.6 221.0 265.2 309.4
OCV @ coldest temp (-40C, -40F amb) 271.4 325.7 379.9 434.2 271.4 325.7 379.9 434.2 271.4 325.7 379.9
OCV @ coldest temp (-30C, -22F amb) 263.6 316.4 369.1 421.8 263.6 316.4 369.1 421.8 263.6 316.4 369.1
OCV @ coldest temp (-20C, -4F amb) 255.9 307.1 358.2 409.4 255.9 307.1 358.2 409.4 255.9 307.1 358.2
OCV @ coldest temp (-10C, 14F amb) 248.1 297.8 347.4 397.0 248.1 297.8 347.4 397.0 248.1 297.8 347.4
OCV @ coldest temp (0C, 32F amb) 240.4 288.5 336.5 384.6 240.4 288.5 336.5 384.6 240.4 288.5 336.5
Power @ MPT (STC) 875 1050 1225 1400 1750 2100 2450 2800 2625 3150 3675
PTC AC system power rating (STP175) 730 876 1022 1168 1460 1752 2055 2348 2201 2642 3082
PTC AC system power rating (STP175S) 715 857 1000 1143 1429 1715 2001 2287 2144 2572 3001
Suggested inverter PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 1800 PVI 2500 PVI 2500 PVI 2500 PVI 2500 PVI 2500
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer Suntech
Module Model STP170(S)-24/Ab-1
Voltage @ MPT (STC) 35.2 VDC
Current @ MPT (STC) 4.83 ADC
Current, short circuit 5.14 ADC
OCV @ 25 deg C cells 43.8 VDC
Power @ MPT (STC) 170.0 W
PTC Power Rating 153.2 150 W
Temp Coeff of Vmpt 153.2 / 150 W/m
Temp Coeff of Vocv 0.155 V/degC (Vocv)
NOCT (nom. cell temp) 48 deg C 118.4 deg F
* PTC power rating is 153.2W for the STP-170-24/Ab-1, the STP-170S-24/Ab-1 has a PTC power of 150.0W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer Suntech
Module Model STP160(S)-24/Ab-1
Voltage @ MPT (STC) 34.4 VDC
Current @ MPT (STC) 4.65 ADC
Current, short circuit 5 ADC
OCV @ 25 deg C cells 43.2 VDC
Power @ MPT (STC) 160.0 W
PTC Power Rating 140.0 140.9 W
Temp Coeff of Vmpt 155.0 / 140.9 W/m
Temp Coeff of Vocv 0.155 V/degC (Vocv)
NOCT (nom. cell temp) 48 deg C 118.4 deg F
* PTC power rating is 140.9W for the STP-160-24/Ab-1, the STP-160S-24/Ab-1 has a PTC power of 140.9W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer Sunwise
Module Model SW160
Voltage @ MPT (STC) 36.0 VDC
Current @ MPT (STC) 4.92 ADC
Current, short circuit 5.3 ADC
OCV @ 25 deg C cells 44 VDC
Power @ MPT (STC) 180.0 W
PTC Power Rating 157.9 W
Temp Coeff of Vmpt 167.0 / 157.9 W/m
Temp Coeff of Vocv 0.167 V/degC (Vocv)
NOCT (nom. cell temp) 49 deg C 120.2 deg F
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer Sunwise
Module Model SW175
Voltage @ MPT (STC) 36.5 VDC
Current @ MPT (STC) 4.8 ADC
Current, short circuit 5.2 ADC
OCV @ 25 deg C cells 43.9 VDC
Power @ MPT (STC) 175.0 W
PTC Power Rating 153.4 W
Temp Coeff of Vmpt 0.167 V/degC (Vocv)
Temp Coeff of Vocv 0.167 V/degC (Vocv)
NOCT (nom. cell temp) 49 deg C 120.2 deg F
* PTC power rating is 162.5W for the STP-180-24/Ab-1, the STP-180S-24/Ab-1 has a PTC power of 159.1W
For Vmpt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 125VDC),
purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Manufacturer		Sunwize	Power @ MPT		170.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output							
Module Model		SW170	PTC Power Rating		143.9 W										
Voltage @ MPT (STC)		36.25 VDC	Temp Coeff of Vmpt		0.167 V/degC	(Vmpt)									
Current @ MPT (STC)		4.69 ADC	Temp Coeff of Vocv		0.167 V/degC	(Vocv)									
Current, short circuit		5.15 ADC	NOCT (nom. cell temp)		49 deg C	120.2 deg F									
OCV @ 25 deg C cells		43.9 VDC													
Modules total in array		5	6	7	8	10	12	14	16	15	18	21			
Modules per string		5	6	7	8	5	6	7	8	5	6	7			
Strings in Parallel		1	1	1	1	2	2	2	2	3	3	3			
Voltage @ MPT (STC)		181.3	217.5	253.8	290.0	181.3	217.5	253.8	290.0	181.3	217.5	253.8			
Vmpt @ max amb temp (30C, 86F amb)		145.7	178.4	208.2	237.9	148.7	178.4	208.2	237.9	148.7	178.4	208.2			
Vmpt @ max amb temp (35C, 95F amb)		144.5	173.4	202.3	231.2	144.5	173.4	202.3	231.2	144.5	173.4	202.3			
Vmpt @ max amb temp (40C, 104F amb)		140.3	168.4	196.5	224.5	140.3	168.4	196.5	224.5	140.3	168.4	196.5			
Vmpt @ max amb temp (45C, 113F amb)		136.2	163.4	190.6	217.9	136.2	163.4	190.6	217.9	136.2	163.4	190.6			
Vmpt @ max amb temp (50C, 122F amb)		132.0	158.4	184.8	211.2	132.0	158.4	184.8	211.2	132.0	158.4	184.8			
OCV @ 25 deg C cells		219.5	263.4	307.3	351.2	219.5	263.4	307.3	351.2	219.5	263.4	307.3			
OCV @ coldest temp (-40C, -40F amb)		273.8	328.5	383.3	438.0	273.8	328.5	383.3	438.0	273.8	328.5	383.3			
OCV @ coldest temp (-30C, -22F amb)		265.4	318.5	371.6	424.7	265.4	318.5	371.6	424.7	265.4	318.5	371.6			
OCV @ coldest temp (-20C, -4F amb)		257.1	308.5	359.9	411.3	257.1	308.5	359.9	411.3	257.1	308.5	359.9			
OCV @ coldest temp (-10C, 14F amb)		248.7	298.5	348.2	398.0	248.7	298.5	348.2	398.0	248.7	298.5	348.2			
OCV @ coldest temp (0C, 32F amb)		240.4	288.5	336.5	384.6	240.4	288.5	336.5	384.6	240.4	288.5	336.5			
Power @ MPT (STC)		850	1020	1190	1360	1700	2040	2380	2720	2550	3060	3570			
PTC AC system power rating		689	826	964	1102	1377	1653	1939	2216	2077	2493	2908			
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer		Sunwize	Power @ MPT		180.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output							
Module Model		SW160	PTC Power Rating		163.0 W										
Voltage @ MPT (STC)		33.4 VDC	Temp Coeff of Vmpt		0.165 V/degC	(Vmpt)									
Current @ MPT (STC)		4.79 ADC	Temp Coeff of Vocv		0.165 V/degC	(Vocv)									
Current, short circuit		5.43 ADC	NOCT (nom. cell temp)		43 deg C	109.4 deg F									
OCV @ 25 deg C cells		42 VDC													
Modules total in array		5	6	7	8	10	12	14	16	15	18	21			
Modules per string		5	6	7	8	5	6	7	8	5	6	7			
Strings in Parallel		1	1	1	1	2	2	2	2	3	3	3			
Voltage @ MPT (STC)		167.0	200.4	233.8	267.2	167.0	200.4	233.8	267.2	167.0	200.4	233.8			
Vmpt @ max amb temp (30C, 86F amb)		139.8	167.7	195.7	223.6	139.8	167.7	195.7	223.6	139.8	167.7	195.7			
Vmpt @ max amb temp (35C, 95F amb)		135.7	162.8	189.9	217.0	135.7	162.8	189.9	217.0	135.7	162.8	189.9			
Vmpt @ max amb temp (40C, 104F amb)		131.5	157.8	184.1	210.4	131.5	157.8	184.1	210.4	131.5	157.8	184.1			
Vmpt @ max amb temp (45C, 113F amb)		127.4	152.9	178.4	203.8	127.4	152.9	178.4	203.8	127.4	152.9	178.4			
Vmpt @ max amb temp (50C, 122F amb)		123.3	147.9	172.6	197.2	123.3	147.9	172.6	197.2	123.3	147.9	172.6			
OCV @ 25 deg C cells		210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0	210.0	252.0	294.0			
OCV @ coldest temp (-40C, -40F amb)		263.6	316.4	369.1	421.8	263.6	316.4	369.1	421.8	263.6	316.4	369.1			
OCV @ coldest temp (-30C, -22F amb)		255.4	306.5	357.5	408.6	255.4	306.5	357.5	408.6	255.4	306.5	357.5			
OCV @ coldest temp (-20C, -4F amb)		247.1	296.6	346.0	395.4	247.1	296.6	346.0	395.4	247.1	296.6	346.0			
OCV @ coldest temp (-10C, 14F amb)		238.9	286.7	334.4	382.2	238.9	286.7	334.4	382.2	238.9	286.7	334.4			
OCV @ coldest temp (0C, 32F amb)		230.6	276.8	322.9	369.0	230.6	276.8	322.9	369.0	230.6	276.8	322.9			
Power @ MPT (STC)		800	960	1120	1280	1600	1920	2240	2560	2400	2880	3360			
PTC AC system power rating		645	774	903	1032	1289	1547	1815	2074	1945	2334	2723			
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer		Sunwize	Power @ MPT		155.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output							
Module Model		SW155	PTC Power Rating		133.3 W										
Voltage @ MPT (STC)		33.4 VDC	Temp Coeff of Vmpt		0.165 V/degC	(Vmpt)									
Current @ MPT (STC)		4.65 ADC	Temp Coeff of Vocv		0.165 V/degC	(Vocv)									
Current, short circuit		5.28 ADC	NOCT (nom. cell temp)		43 deg C	109.4 deg F									
OCV @ 25 deg C cells		42 VDC													
Modules total in array		5	6	7	8	10	12	14	16	15	18	21			
Modules per string		5	6	7	8	5	6	7	8	5	6	7			
Strings in Parallel		1	1	1	1	2	2	2	2	3	3	3			
Voltage @ MPT (STC)		167.0	200.4	233.8	267.2	167.0	200.4	233.8	267.2	167.0	200.4	233.8			
Vmpt @ max amb temp (30C, 86F amb)		139.8	167.7	195.7	223.6	139.8	167.7	195.7	223.6	139.8	167.7	195.7			
Vmpt @ max amb temp (35C, 95F amb)		135.7	162.8	189.9	217.0	135.7	162.8	189.9	217.0	135.7	162.8	189.9			
Vmpt @ max amb temp (40C, 104F amb)		131.5	157.8	184.1	210.4	131.5	157.8	184.1	210.4	131.5	157.8	184.1			
Vmpt @ max amb temp (45C, 113F amb)		127.4	152.9	178.4	203.8	127.4	152.9	178.4	203.8	127.4	152.9	178.4			
Vmpt @ max amb temp (50C, 122F amb)		123.3	147.9	172.6	197.2	123.3	147.9	172.6	197.2	123.3	147.9	172.6			
OCV @ 25 deg C cells		210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0	210.0	252.0	294.0			
OCV @ coldest temp (-40C, -40F amb)		263.6	316.4	369.1	421.8	263.6	316.4	369.1	421.8	263.6	316.4	369.1			
OCV @ coldest temp (-30C, -22F amb)		255.4	306.5	357.5	408.6	255.4	306.5	357.5	408.6	255.4	306.5	357.5			
OCV @ coldest temp (-20C, -4F amb)		247.1	296.6	346.0	395.4	247.1	296.6	346.0	395.4	247.1	296.6	346.0			
OCV @ coldest temp (-10C, 14F amb)		238.9	286.7	334.4	382.2	238.9	286.7	334.4	382.2	238.9	286.7	334.4			
OCV @ coldest temp (0C, 32F amb)		230.6	276.8	322.9	369.0	230.6	276.8	322.9	369.0	230.6	276.8	322.9			
Power @ MPT (STC)		775	930	1085	1240	1550	1860	2170	2480	2325	2790	3255			
PTC AC system power rating		626	751	876	1001	1252	1502	1762	2013	1887	2265	2642			
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer		Sunwize	Power @ MPT		150.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output							
Module Model		SW150	PTC Power Rating		130.9 W										
Voltage @ MPT (STC)		33.4 VDC	Temp Coeff of Vmpt		0.165 V/degC	(Vmpt)									
Current @ MPT (STC)		4.5 ADC	Temp Coeff of Vocv		0.165 V/degC	(Vocv)									
Current, short circuit		5.11 ADC	NOCT (nom. cell temp)		43 deg C	109.4 deg F									
OCV @ 25 deg C cells		42 VDC													
Modules total in array		5	6	7	8	10	12	14	16	15	18	21	24		
Modules per string		5	6	7	8	5	6	7	8	5	6	7	8		
Strings in Parallel		1	1	1	1	2	2	2	2	3	3	3	3		
Voltage @ MPT (STC)		167.0	200.4	233.8	267.2	167.0	200.4	233.8	267.2	167.0	200.4	233.8	267.2		
Vmpt @ max amb temp (30C, 86F amb)		139.8	167.7	195.7	223.6	139.8	167.7	195.7	223.6	139.8	167.7	195.7	223.6		
Vmpt @ max amb temp (35C, 95F amb)		135.7	162.8	189.9	217.0	135.7	162.8	189.9	217.0	135.7	162.8	189.9	217.0		
Vmpt @ max amb temp (40C, 104F amb)		131.5	157.8	184.1	210.4	131.5	157.8	184.1	210.4	131.5	157.8	184.1	210.4		
Vmpt @ max amb temp (45C, 113F amb)		127.4	152.9	178.4	203.8	127.4	152.9	178.4	203.8	127.4	152.9	178.4	203.8		
Vmpt @ max amb temp (50C, 122F amb)		123.3	147.9	172.6	197.2	123.3	147.9	172.6	197.2	123.3	147.9	172.6	197.2		
OCV @ 25 deg C cells		210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0		
OCV @ coldest temp (-40C, -40F amb)		263.6	316.4	369.1	421.8	263.6	316.4	369.1	421.8	263.6	316.4	369.1	421.8		
OCV @ coldest temp (-30C, -22F amb)		255.4	306.5	357.5	408.6	255.4	306.5	357.5	408.6	255.4	306.5	357.5	408.6		
OCV @ coldest temp (-20C, -4F amb)		247.1	296.6	346.0	395.4	247.1	296.6	346.0	395.4	247.1	296.6	346.0	395.4		
OCV @ coldest temp (-10C, 14F amb)		238.9	286.7	334.4	382.2	238.9	286.7	334.4	382.2	238.9	286.7	334.4	382.2		
OCV @ coldest temp (0C, 32F amb)		230.6	276.8	322.9	369.0	230.6	276.8	322.9	369.0	230.6	276.8	322.9	369.0		
Power @ MPT (STC)		750	900	1050	1200	1500	1800	2100	2400	2250	2700	3150	3600		
PTC AC system power rating		605	726	848	969	1211	1453	1704	1948	1826	2191	2556	2922		
Suggested inverter		PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500		

Module Manufacturer		Trina Solar	Power @ MPT		240.0 W			For Vmpt @ max amb temp and OCV @ coldest temperature,green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output							
Module Model		TSM-DC05 (240W)	PTC Power Rating		0.0 W										
Voltage @ MPT (STC)		30.6 VDC	Temp Coeff of Vmpt		0.131 V/degC	(Vmpt)									
Current @ MPT (STC)		7.84 ADC	Temp Coeff of Vocv		0.131 V/degC	(Vocv)									
Current, short circuit		8.38 ADC	NOCT (nom. cell temp)		47 deg C	116.6 deg F									
OCV @ 25 deg C cells		37.5 VDC													
Modules total in array		6	7	8	9	10	10	12	14	16					
Modules per string		6	7	8	9	10	5	6	7	8					
Strings in Parallel		1	1	1	1	1	2	2	2	2					
Voltage @ MPT (STC)		183.6	214.2	244.8	275.4	306.0	183.6	214.2	244.8						
Vmpt @ max amb temp (30C, 86F amb)		154.5	180.3	206.0	231.8</										

Module Manufacturer: Uni-Solar PVL-124 (ES-124) Power @ MPT: 124.0 W PTC Power Rating: 117.0 W Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Model		Power @ MPT		Temperature																			
Voltage @ MPT (STC)		PTC Power Rating		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)		114.8 deg F		15		18		21		24		28		32	
30 VDC		117.0 W		0.093 V/degC		0.16 V/degC		46 deg C				15		18		21		24		28		32	
Current @ MPT (STC)		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)																	
4.13 ADC		0.093 V/degC		0.16 V/degC		46 deg C																	
5.1 ADC																							
OCV @ 25 deg C cells																							
42 VDC																							
Modules total in array	5	6	7	8	10	12	14	16	15	18	21	24	20	24	28								
Modules per string	5	6	7	8	5	6	7	8	5	6	7	8	5	6	7								
Strings in Parallel	1	1	1	1	1	2	2	2	3	3	3	3	3	4	4								
Voltage @ MPT (STC)	150.0	180.0	210.0	240.0	150.0	180.0	210.0	240.0	150.0	180.0	210.0	240.0	150.0	180.0	210.0								
Vmppt @ max amb temp (30C, 86F amb)	133.3	159.9	186.6	213.2	133.3	159.9	186.6	213.2	133.3	159.9	186.6	213.2	133.3	159.9	186.6								
Vmppt @ max amb temp (35C, 95F amb)	130.9	157.1	183.3	209.5	130.9	157.1	183.3	209.5	130.9	157.1	183.3	209.5	130.9	157.1	183.3								
Vmppt @ max amb temp (40C, 104F amb)	128.6	154.3	180.1	205.8	128.6	154.3	180.1	205.8	128.6	154.3	180.1	205.8	128.6	154.3	180.1								
Vmppt @ max amb temp (45C, 113F amb)	126.3	151.5	176.8	202.1	126.3	151.5	176.8	202.1	126.3	151.5	176.8	202.1	126.3	151.5	176.8								
Vmppt @ max amb temp (50C, 122F amb)	124.0	148.8	173.5	198.3	124.0	148.8	173.5	198.3	124.0	148.8	173.5	198.3	124.0	148.8	173.5								
OCV @ 25 deg C cells	210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0	210.0	252.0	294.0	336.0	210.0	252.0	294.0								
OCV @ coldest temp (-40C, -40F amb)	262.0	314.4	366.8	419.2	262.0	314.4	366.8	419.2	262.0	314.4	366.8	419.2	262.0	314.4	366.8								
OCV @ coldest temp (-30C, -22F amb)	254.0	304.8	355.6	406.4	254.0	304.8	355.6	406.4	254.0	304.8	355.6	406.4	254.0	304.8	355.6								
OCV @ coldest temp (-20C, -4F amb)	246.0	295.2	344.4	393.6	246.0	295.2	344.4	393.6	246.0	295.2	344.4	393.6	246.0	295.2	344.4								
OCV @ coldest temp (-10C, 14F amb)	238.0	285.6	333.2	380.8	238.0	285.6	333.2	380.8	238.0	285.6	333.2	380.8	238.0	285.6	333.2								
OCV @ coldest temp (0C, 32F amb)	230.0	276.0	322.0	368.0	230.0	276.0	322.0	368.0	230.0	276.0	322.0	368.0	230.0	276.0	322.0								
Power @ MPT (STC)	620	744	868	992	1240	1488	1736	1984	1860	2232	2604	2976	2480	2976	3472								
PTC AC system power rating	541	649	758	866	1082	1299	1523	1741	1632	1959	2285	2611	2176	2611	3047								
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500								

Module Manufacturer: Uni-Solar PVL-93 Power @ MPT: 93.0 W PTC Power Rating: 88.1 W Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Model		Power @ MPT		Temperature																			
Voltage @ MPT (STC)		PTC Power Rating		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)		114.8 deg F		15		18		21		24		28		32	
22.5 VDC		88.1 W		0.07 V/degC		0.12 V/degC		46 deg C				15		18		21		24		28		32	
Current @ MPT (STC)		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)																	
4.13 ADC		0.07 V/degC		0.12 V/degC		46 deg C																	
5.1 ADC																							
OCV @ 25 deg C cells																							
31.5 VDC																							
Modules total in array	9	10	11	12	14	16	18	20	22	18	21	24	27	30	33	28	32						
Modules per string	9	10	11	12	14	16	18	20	22	18	21	24	27	30	33	28	32						
Strings in Parallel	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4						
Voltage @ MPT (STC)	202.5	225.0	247.5	270.0	175.5	180.0	202.5	225.0	247.5	175.5	180.0	202.5	225.0	247.5	270.0								
Vmppt @ max amb temp (30C, 86F amb)	179.8	199.8	219.8	239.8	139.9	159.8	179.8	199.8	219.8	139.9	159.8	179.8	199.8	219.8	239.8								
Vmppt @ max amb temp (35C, 95F amb)	176.7	196.3	215.9	235.4	137.4	157.0	176.7	196.3	215.9	137.4	157.0	176.7	196.3	215.9	235.4								
Vmppt @ max amb temp (40C, 104F amb)	173.5	192.8	212.1	231.2	135.0	154.2	173.5	192.8	212.1	135.0	154.2	173.5	192.8	212.1	231.2								
Vmppt @ max amb temp (45C, 113F amb)	170.4	189.3	208.2	227.1	132.5	151.4	170.4	189.3	208.2	132.5	151.4	170.4	189.3	208.2	227.1								
Vmppt @ max amb temp (50C, 122F amb)	167.2	188.3	204.4	222.1	130.1	148.6	167.2	188.3	204.4	130.1	148.6	167.2	188.3	204.4	222.1								
OCV @ 25 deg C cells	283.5	315.0	346.5	378.0	220.5	252.0	283.5	315.0	346.5	220.5	252.0	283.5	315.0	346.5	378.0								
OCV @ coldest temp (-40C, -40F amb)	353.7	393.0	432.3	471.6	275.1	314.4	353.7	393.0	432.3	275.1	314.4	353.7	393.0	432.3	471.6								
OCV @ coldest temp (-30C, -22F amb)	342.9	381.0	419.1	457.2	266.7	304.8	342.9	381.0	419.1	266.7	304.8	342.9	381.0	419.1	457.2								
OCV @ coldest temp (-20C, -4F amb)	332.1	369.0	405.9	442.8	258.3	295.2	332.1	369.0	405.9	258.3	295.2	332.1	369.0	405.9	442.8								
OCV @ coldest temp (-10C, 14F amb)	321.3	357.0	392.7	428.4	249.9	285.6	321.3	357.0	392.7	249.9	285.6	321.3	357.0	392.7	428.4								
OCV @ coldest temp (0C, 32F amb)	310.5	345.0	379.5	415.0	241.5	276.0	310.5	345.0	379.5	241.5	276.0	310.5	345.0	379.5	415.0								
Power @ MPT (STC)	837	930	1023	1116	1302	1488	1674	1860	2046	1674	1953	2232	2511	2790	3069	2604	2976						
PTC AC system power rating	713	815	896	978	1141	1304	1475	1639	1803	1475	1721	1966	2212	2458	2704	2294	2622						
Suggested inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500	PVI 2500					

Module Manufacturer: Uni-Solar PVL-66 Power @ MPT: 66.0 W PTC Power Rating: 64.4 W Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output

Module Model		Power @ MPT		Temperature																			
Voltage @ MPT (STC)		PTC Power Rating		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)		114.8 deg F		15		18		21		24		28		32	
16.5 VDC		64.4 W		0.051 V/degC		0.088 V/degC		46 deg C				15		18		21		24		28		32	
Current @ MPT (STC)		Temp Coeff of Vmppt		Temp Coeff of Vocv		NOCT (nom. cell temp)																	
4.13 ADC		0.051 V/degC		0.088 V/degC		46 deg C																	
5.1 ADC																							
OCV @ 25 deg C cells																							
23.1 VDC																							
Modules total in array	10	11	12	13	14	15	18	20	22	24	26	28	30	33	36	39	42						
Modules per string	10	11	12	13	14	15	18	20	22	24	26	28	30	33	36	39	42						
Strings in Parallel	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	4						
Voltage @ MPT (STC)	165.0	181.5	198.0	214.5	231.0	247.5	148.5	165.0	181.5	198.0	214.5	231.0	247.5	264.0	280.5	297.0	313.5						
Vmppt @ max amb temp (30C, 86F amb)	146.6	161.3	176.0	190.6	205.3	220.0	132.0	146.6	161.3	176.0	190.6	205.3	220.0	146.6	161.3	176.0	190.6						
Vmppt @ max amb temp (35C, 95F amb)	144.1	158.5	172.9	187.3	201.7	216.1	129.7	144.1	158.5	172.9	187.3	201.7	216.1	144.1	158.5	172.9	187.3						
Vmppt @ max amb temp (40C, 104F amb)	141.5	155.7	169.8	184.0	198.2	212.3	127.4	141.5	155.7	169.8	184.0	198.2	212.3	141.5	155.7	169.8	184.0						
Vmppt @ max amb temp (45C, 113F amb)	139.0	152.9	166.8	180.7	194.6	208.5	125.1	139.0	152.9	166.8	180.7	194.6	208.5	139.0	152.9	166.8	180.7						
Vmppt @ max amb temp (50C, 122F amb)	136.4	150.1	163.9	177.6	191.3	205.0	122.8	136.4	150.1	163.9	177.6	191.3	205.0	136.4	150.1	163.9	177.6						
OCV @ 25 deg C cells	231.0	254.1	277.2	300.3	323.4	346.5	207.9	231.0	254.1	277.2	300.3	323.4	346.5	231.0	254.1	277.2	300.3						
OCV @ coldest temp (-40C, -40F amb)	288.2	317.0	345.8	374.7	403.5	432.3	258.4	288.2	317.0	345.8	374.7	403.5	432.3	288.2	317.0	345.8	374.7						
OCV @ coldest temp (-30C, -22F amb)	279.4	307.3	335.3	363.2	391.2	419.1	251.5	279.4	307.3	335.3	363.2	391.2	419.1	279.4	307.3	335.3	363.2						
OCV @ coldest temp (-20C, -4F amb)	270.6	297.7	324.7	351.8	378.8	405.9	243.5	270.6	297.7	324.7	351.8	378.8	405.9	270.6	297.7	324.7	351.8						

Module Manufacturer	Yingli Solar				Power @ MPP				220.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	YL220 (156)				PTC Power Rating				0.0 W*				
Voltage @ MPP (STC)	29 VDC				Temp Coeff of Vmppt				0.133 V/degC (Vmppt)				
Current @ MPP (STC)	7.59 ADC				Temp Coeff of Vocv				0.135 V/degC (Vocv)				
Current, short circuit	8.15 ADC				NOCT (nom. cell temp)				46 deg C				
OCV @ 25 deg C cells	36.5 VDC								114.8 deg F				
NOCT (nom. cell temp)													
Modules total in array	6	7	8	9	10	12	14						
Modules per string	6	7	8	9	10	6	7						
Strings in Parallel	1	1	1	1	1	2	2						
Voltage @ MPT (STC)	174.0	203.0	232.0	261.0	290.0	174.0	203.0						
Vmppt @ max amb temp (30C, 86F amb)	144.3	169.0	193.1	217.3	241.4	144.3	169.0						
Vmppt @ max amb temp (35C, 95F amb)	140.8	164.3	187.7	211.2	234.7	140.8	164.3						
Vmppt @ max amb temp (40C, 104F amb)	136.7	159.5	182.3	205.1	227.9	136.7	159.5						
Vmppt @ max amb temp (45C, 113F amb)	132.7	154.8	176.9	199.0	221.2	132.7	154.8						
Vmppt @ max amb temp (50C, 122F amb)	128.6	150.1	171.5	193.0	214.4	128.6	150.1						
OCV @ 25 deg C cells	219.0	255.5	292.0	328.5	365.0	219.0	255.5						
OCV @ coldest temp (-40C, -40F amb)	271.7	316.9	362.2	407.5	452.8	271.7	316.9						
OCV @ coldest temp (-30C, -22F amb)	263.6	307.5	351.4	395.3	439.3	263.6	307.5						
OCV @ coldest temp (-20C, -4F amb)	255.5	298.0	340.6	383.2	425.8	255.5	298.0						
OCV @ coldest temp (-10C, 14F amb)	247.4	288.6	329.8	371.0	412.3	247.4	288.6						
OCV @ coldest temp (0C, 32F amb)	239.3	279.1	319.0	358.9	398.8	239.3	279.1						
Power @ MPT (STC)	1320	1540	1760	1980	2200	2640	3080						
PTC AC system power rating	0	0	0	0	0	0	0						
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500						

Module Manufacturer	Yingli Solar				Power @ MPP				215.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	YL215 (156)				PTC Power Rating				0.0 W*				
Voltage @ MPP (STC)	29 VDC				Temp Coeff of Vmppt				0.133 V/degC (Vmppt)				
Current @ MPP (STC)	7.41 ADC				Temp Coeff of Vocv				0.133 V/degC (Vocv)				
Current, short circuit	8.1 ADC				NOCT (nom. cell temp)				46 deg C				
OCV @ 25 deg C cells	36 VDC								114.8 deg F				
NOCT (nom. cell temp)													
Modules total in array	3	7	8	9	10	12	14						
Modules per string	3	7	8	9	10	6	7						
Strings in Parallel	1	1	1	1	1	2	2						
Voltage @ MPT (STC)	87.0	203.0	232.0	261.0	290.0	174.0	203.0						
Vmppt @ max amb temp (30C, 86F amb)	72.6	169.5	193.7	217.9	242.1	145.3	169.5						
Vmppt @ max amb temp (35C, 95F amb)	70.6	164.8	188.4	211.9	235.5	141.3	164.8						
Vmppt @ max amb temp (40C, 104F amb)	68.6	160.2	183.1	205.9	228.8	137.3	160.2						
Vmppt @ max amb temp (45C, 113F amb)	66.7	155.5	177.7	200.0	222.2	133.3	155.5						
Vmppt @ max amb temp (50C, 122F amb)	64.7	150.9	172.4	194.0	215.5	129.3	150.9						
OCV @ 25 deg C cells	108.0	252.0	288.0	324.0	360.0	216.0	252.0						
OCV @ coldest temp (-40C, -40F amb)	133.9	312.5	357.2	401.8	446.5	267.9	312.5						
OCV @ coldest temp (-30C, -22F amb)	129.9	303.2	346.5	389.9	433.2	259.9	303.2						
OCV @ coldest temp (-20C, -4F amb)	126.0	293.9	335.9	377.9	419.9	251.9	293.9						
OCV @ coldest temp (-10C, 14F amb)	122.0	284.6	325.2	365.9	406.6	243.9	284.6						
OCV @ coldest temp (0C, 32F amb)	118.0	275.3	314.6	353.9	393.3	236.0	275.3						
Power @ MPT (STC)	645	1505	1720	1935	2150	2580	3010						
PTC AC system power rating	0	0	0	0	0	0	0						
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500						

Module Manufacturer	Yingli Solar				Power @ MPP				175.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	YL175				PTC Power Rating				0.0 W*				
Voltage @ MPP (STC)	23 VDC				Temp Coeff of Vmppt				0.107 V/degC (Vmppt)				
Current @ MPP (STC)	7.61 ADC				Temp Coeff of Vocv				0.107 V/degC (Vocv)				
Current, short circuit	8.2 ADC				NOCT (nom. cell temp)				46 deg C				
OCV @ 25 deg C cells	29 VDC								114.8 deg F				
NOCT (nom. cell temp)													
Modules total in array	7	8	9	10	11	12	14	16	18	20			
Modules per string	7	8	9	10	11	12	7	8	9	10			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	161.0	184.0	207.0	230.0	253.0	276.0	161.0	184.0	207.0	230.0			
Vmppt @ max amb temp (30C, 86F amb)	134.0	153.2	172.3	191.5	210.6	229.8	134.0	153.2	172.3	191.5			
Vmppt @ max amb temp (35C, 95F amb)	130.3	148.9	167.5	186.1	204.7	223.4	130.3	148.9	167.5	186.1			
Vmppt @ max amb temp (40C, 104F amb)	126.5	144.6	162.7	180.8	198.9	216.9	126.5	144.6	162.7	180.8			
Vmppt @ max amb temp (45C, 113F amb)	122.8	140.3	157.9	175.4	193.0	210.5	122.8	140.3	157.9	175.4			
Vmppt @ max amb temp (50C, 122F amb)	119.1	136.1	153.1	170.1	187.1	204.1	119.1	136.1	153.1	170.1			
OCV @ 25 deg C cells	203.0	232.0	261.0	290.0	319.0	348.0	203.0	232.0	261.0	290.0			
OCV @ coldest temp (-40C, -40F amb)	251.7	287.6	323.6	359.6	395.5	431.5	251.7	287.6	323.6	359.6			
OCV @ coldest temp (-30C, -22F amb)	244.2	279.1	314.0	348.9	383.7	418.6	244.2	279.1	314.0	348.9			
OCV @ coldest temp (-20C, -4F amb)	236.7	270.5	304.3	338.2	372.0	405.8	236.7	270.5	304.3	338.2			
OCV @ coldest temp (-10C, 14F amb)	229.2	262.0	294.7	327.5	360.2	392.9	229.2	262.0	294.7	327.5			
OCV @ coldest temp (0C, 32F amb)	221.7	253.4	285.1	316.8	348.4	380.1	221.7	253.4	285.1	316.8			
Power @ MPT (STC)	1225	1400	1575	1750	1925	2100	2450	2800	3150	3500			
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0			
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	Yingli Solar				Power @ MPT				170.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	YLDJ-3				PTC Power Rating				0.0 W*				
Voltage @ MPT (STC)	23 VDC				Temp Coeff of Vmppt				0.085 V/degC (Vmppt)				
Current @ MPT (STC)	7.4 ADC				Temp Coeff of Vocv				0.107 V/degC (Vocv)				
Current, short circuit	8.1 ADC				NOCT (nom. cell temp)				46 deg C				
OCV @ 25 deg C cells	29 VDC								114.8 deg F				
NOCT (nom. cell temp)													
Modules total in array	7	8	9	10	11	12	14	16	18	20			
Modules per string	7	8	9	10	11	12	7	8	9	10			
Strings in Parallel	1	1	1	1	1	1	2	2	2	2			
Voltage @ MPT (STC)	161.0	184.0	207.0	230.0	253.0	276.0	161.0	184.0	207.0	230.0			
Vmppt @ max amb temp (30C, 86F amb)	139.6	159.5	179.5	199.4	219.3	239.3	139.6	159.5	179.5	199.4			
Vmppt @ max amb temp (35C, 95F amb)	136.6	156.1	175.6	195.2	214.7	234.2	136.6	156.1	175.6	195.2			
Vmppt @ max amb temp (40C, 104F amb)	133.6	152.7	171.8	190.9	210.0	229.1	133.6	152.7	171.8	190.9			
Vmppt @ max amb temp (45C, 113F amb)	130.7	149.3	168.0	186.7	205.3	224.0	130.7	149.3	168.0	186.7			
Vmppt @ max amb temp (50C, 122F amb)	127.7	145.9	164.2	182.4	200.6	218.9	127.7	145.9	164.2	182.4			
OCV @ 25 deg C cells	203.0	232.0	261.0	290.0	319.0	348.0	203.0	232.0	261.0	290.0			
OCV @ coldest temp (-40C, -40F amb)	251.7	287.6	323.6	359.6	395.5	431.5	251.7	287.6	323.6	359.6			
OCV @ coldest temp (-30C, -22F amb)	244.2	279.1	314.0	348.9	383.7	418.6	244.2	279.1	314.0	348.9			
OCV @ coldest temp (-20C, -4F amb)	236.7	270.5	304.3	338.2	372.0	405.8	236.7	270.5	304.3	338.2			
OCV @ coldest temp (-10C, 14F amb)	229.2	262.0	294.7	327.5	360.2	392.9	229.2	262.0	294.7	327.5			
OCV @ coldest temp (0C, 32F amb)	221.7	253.4	285.1	316.8	348.4	380.1	221.7	253.4	285.1	316.8			
Power @ MPT (STC)	1190	1360	1530	1700	1870	2040	2380	2720	3060	3400			
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0			
Suggested Inverter	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 1800	PVI 2500	PVI 2500	PVI 2500	PVI 2500			

Module Manufacturer	WanXiang Solar				Power @ MPT				175.0 W				For Vmppt @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output
Module Model	WX51755				PTC Power Rating				0.0 W*				
Voltage @ MPT (STC)	35.71 VDC				Temp Coeff of Vmppt				0.179 V/degC (Vmppt)				
Current @ MPT (STC)	4.9 ADC				Temp Coeff of Vocv				0.179 V/degC (Vocv)				
Current, short circuit	5.5 ADC				NOCT (nom. cell temp)				48 deg C				
OCV @ 25 deg C cells	43.6 VDC								118.4 deg F				
NOCT (nom. cell temp)													
Modules total in array	5	6	7	8	10	12	14	16	15	18	21		
Modules per string	5	6	7	8	5	6	7	8	5	6	7		
Strings in Parallel	1	1	1	1	2	2	2	2	3	3	3		
Voltage @ MPT (STC)	178.5	214.3	250.0	285.7	178.6	214.2	250.0	285.7	178.6	214.3	250.0		
Vmppt @ max amb temp (30C, 86F amb)	144.5	173.4	202.4	231.3	144.5	173.4	202.4	231.3	144.5	173.4	202.4		
Vmppt @ max amb temp (35C, 95F amb)	140.1	168.1	196.1	224.1	140.1	168.1	196.1	224.1	140.1	168.1	196.1		
Vmppt @ max amb temp (40C, 104F amb)	135.6	162.7	189.8	216.9	135.6	162.7	189.8	216.9	135.6	162.7	189.8		
Vmppt @ max amb temp (45C, 113F amb)	131.1	157.3	183.6	209.8	131.1	157.3	183.6	209.8	131.1	157.3	183.6		
Vmp													

Module Manufacturer: Wanxiang Solar, Module Model: WXS1705, Power @ MPT: 170.0 W, PTC Power Rating: 0.0 W, Voltage @ MPT (STC): 35.41 VDC, Current @ MPT (STC): 4.8 ADC, Temp Coeff of Vmp: 0.177 V/degC, Temp Coeff of Voc: 0.177 V/degC, NOCT (nom. cell temp): 48 deg C, 118.4 deg F, For Vmp: max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

Module Manufacturer: Wanxiang Solar, Module Model: WXS1655, Power @ MPT: 165.0 W, PTC Power Rating: 0.0 W, Voltage @ MPT (STC): 34.74 VDC, Current @ MPT (STC): 4.75 ADC, Temp Coeff of Vmp: 0.174 V/degC, Temp Coeff of Voc: 0.174 V/degC, NOCT (nom. cell temp): 48 deg C, 118.4 deg F, For Vmp: max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

Module Manufacturer: Wanxiang Solar, Module Model: WXS1605, Power @ MPT: 160.0 W, PTC Power Rating: 0.0 W, Voltage @ MPT (STC): 34.04 VDC, Current @ MPT (STC): 4.7 ADC, Temp Coeff of Vmp: 0.17 V/degC, Temp Coeff of Voc: 0.17 V/degC, NOCT (nom. cell temp): 48 deg C, 118.4 deg F, For Vmp: max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

Module Manufacturer: Yingli Solar, Module Model: YL170Wp 35V version, Power @ MPT: 170.0 W, PTC Power Rating: 0.0 W, Voltage @ MPT (STC): 35 VDC, Current @ MPT (STC): 4.86 ADC, Temp Coeff of Vmp: 0.128 V/degC, Temp Coeff of Voc: 0.162 V/degC, NOCT (nom. cell temp): 46 deg C, 114.8 deg F, For Vmp: max amb temp and OCV @ coldest temperature, green is OK, red is not OK, orange is acceptable but should be avoided where possible (inverter will hold at 125VDC), purple is OK but indicates inverter will limit to 2500W AC continuous output.

To find your region's ave hot temp. and coldest temp use this link and follow the steps below
<http://www.weather.com/mnq/home.html>
STEP 1: Enter your zip code
STEP 2: Click go
STEP 3: Scroll down and click "averages" (yellow button)
STEP 4: The orange graph shows average high temp to use for Vmp @ max amb temp.
STEP 5: At the bottom of the page, use "lowest recorded temp." for OCV @ coldest temp.

Below are NEC multipliers for Voc. The tables above use module manufacturers' specifications for Vo

Minimum cold extreme temperature range	-40F to -22F	-22F to -4F	-4F to 14F	14F to 32F	32F to 50F	50F to 77C
Minimum cold extreme temperature range	-40C to -30C	-30C to -20C	-20C to -10C	-10C to 0C	0C to 10C	10C to 25C
Multiplier for extreme cold OCV per NEC	1.25	1.20	1.17	1.13	1.10	1.06

Step-by-Step Instructions to use this string sizing chart

STEP 1: Select the PV Module Manufacturer and Module Model you would like to use by scrolling down to it.
STEP 2: Decide how many modules and DC Watts you would like, find the closest value to this in the Power @ MPT line of near the bottom of the chart for the chosen module. Note that in some cases there may be close Wattage values in a couple locations on this line.
STEP 3: Determine your maximum ambient temperature or average high temperature and the coldest recorded temperature in your area (use the yellow instructions and weblink to the left if you don't know these values).
STEP 4: Use these values to verify that the Vmp @ typical hot temp. is in the green or orange zone.
STEP 5: Use these values to verify that the OCV @ coldest temp. is in the green or orange zone.
STEP 6: The "Modules per string" and "Strings in Parallel" lines will let you know the array configuration.