

## Xantrex™ Trace Series Inverter/Charger



120 Vac/60 Hz Models  
230 Vac/50 Hz Models

Based on the proven technology of the Xantrex™ DR Series, the Xantrex™ Trace Series Inverter/Charger is an economical power conversion solution designed to provide dependable modified sine wave electricity to essential circuits in the home or business during a power outage. It can also be used in conjunction with a generator or any renewable energy source in an off-grid application. In addition to providing new features, the Trace Series improves on the key features that have made the DR Series the most robust and reliable inverter/charger line for backup power and off-grid applications.

### Features

- ▶ New digital display shows kilowatts (kW) when inverting and amps (A) when charging, plus incorporates a robust ON/OFF membrane switch and status indicators
- ▶ New power factor corrected (PFC) charging, combined with a more sophisticated multi-stage battery charging algorithm, reduces electricity draw and generator run-time
- ▶ Simplified controls with a snap-on cover that protects settings from being accidentally changed
- ▶ Better thermal performance allows full output power to 50°C (122°F) without de-rating
- ▶ High surge capacity starts more difficult loads and handles overload conditions reliably
- ▶ Circuit boards are conformally-coated to protect them from corrosion for longer life & improved reliability
- ▶ Durable powder coated, corrosion resistant steel chassis

### Options

- ▶ TR-Remote On/Off Switch – includes LED status indicator (P/N: 989-1060)
- ▶ TR-Conduit Box – connects to the DC side of the inverter and accepts ¾", 1" or 2" conduit (P/N: 989-1050)

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Xantrex™ Trace Series Inverter/Charger

Electrical Specifications								
Part number	989-1000	989-1010	989-1005	989-1015	989-1020	989-1025	989-1030	989-1035
Model number	TR1512-120-60	TR2412-120-60	TR1524-120-60	TR2424-120-60	TR3624-120-60	TR1512-230-50	TR1524-230-50	TR2424-230-50
Invert mode:								
Waveform	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave
Continuous output power	1500 VA	2400 VA	1500 VA	2400 VA	3600 VA	1500 VA	1500 VA	2400 VA
AC output voltage (rms)	120 Vac	120 Vac	120 Vac	120 Vac	120 Vac	230 Vac	230 Vac	230 Vac
AC output frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	50 Hz	50 Hz	50 Hz
Rated AC output current	12.5 Aac	20 Aac	12.5 Aac	20 Aac	30 Aac	6.5 Aac	6.5 Aac	10.4 Aac
Surge capability Max. Output & Duration:								
Overload 10 sec rating	3000 VA	4800 VA	3000 VA	4800 VA	7200 VA	3000 VA	3000 VA	4800 VA
Short Circuit 10 sec rating	50±5 Apk	80±8 Apk	50±5 Apk	80±8 Apk	120±12 Apk	26.5±2.5 Apk	26.5±2.5 Apk	42±4 Apk
Adjustable load sensing range	5 watts minimum to 240 watts maximum					10 watts minimum to 480 watts maximum		
DC input current at no load - search mode	0.35 amps	0.35 amps	0.17 amps	0.17 amps	0.20 amps	0.35 amps	0.20 amps	0.20 amps
Efficiency - peak	> 90%	> 92%	> 92%	> 93%	> 94%	> 92%	> 91%	> 94%
DC input voltage range	11.0 - 15.0 Vdc	11.0 - 15.0 Vdc	22.0 - 30.0 Vdc	22.0 - 30.0 Vdc	22.0 - 30.0 Vdc	11.0 - 15.0 Vdc	22.0 - 30.0 Vdc	22.0 - 30.0 Vdc
Rated DC input current	157 amps	252 amps	76 amps	120 amps	186 amps	158 amps	77 amps	121 amps
Load power factor (allowed)	0.8 to 1.0 (leading or lagging)					0.8 to 1.0 (leading or lagging)		
Series operation	Yes - Two units can be connected to produce 120/240 Vac split phase power, stacking cable included					No	No	No
<b>Bypass / Charge mode:</b>								
AC input voltage range	65 - 140 Vac (wide), 95 - 140 Vac (narrow)					120 - 253 Vac (wide), 180 -253 Vac (narrow)		
AC input frequency range	55 - 64 Hz (narrow-charge & pass-through), 55 - 68 Hz (wide-charge), 41 - 68 Hz (wide pass-through)					45 - 55 Hz (narrow-charge & pass-through), 45 - 68 Hz (wide-charge), 41 - 68 Hz (wide pass-through)		
Built-In internal supplemental breakers	30 Aac bypass, 20 Aac charger	30 Aac bypass, 30 Aac charger	30 Aac bypass, 20 Aac charger	30 Aac bypass, 30 Aac charger	30 Aac bypass, 30 Aac charger	15 Aac bypass, 8 Aac charger	15 Aac bypass, 8 Aac charger	15 Aac bypass, 15 Aac charger
DC charger rate (adjustable)	10 - 70 amps	14 - 100 amps	5 - 35 amps	10 - 70 amps	10 - 70 amps	10 - 70 amps	5 - 35 amps	10 - 70 amps
AC input current at max. charge rate	11.2 Aac	15.8 Aac	10.2 Aac	19.7 Aac	19.5 Aac	5.9 amps	6.0 amps	10.4 amps
AC input power factor	0.88	0.89	> 0.88	0.92	0.93	0.91	> 0.83	0.92
Multi-stage charging	Yes - bulk, absorption and float, plus user-initiated equalize (for flooded batteries only)					Yes - bulk, absorption and float, plus user-initiated equalize (for flooded batteries only)		
Temperature compensation	Battery temperature sensor included					Battery temperature sensor included		
Automatic transfer relay	30 amps	30 amps	30 amps	30 amps	30 amps	15 amps	15 amps	15 amps
Transfer time (typical)	< 40 ms (wide), < 20 ms (narrow)					< 40 ms (wide), < 20 ms (narrow)		
<b>Environmental Specifications</b>								
Dimensions (W x H x L)	8.5 x 7.25 x 21" (216 x 184 x 546 mm)							
Weight	40 lbs (18 kg)	42 lbs (19 kg)	40 lbs (18 kg)	45 lbs (20 kg)	45 lbs (20 kg)	42 lbs (19 kg)	42 lbs (18 kg)	42 lbs (20 kg)
Shipping Dimensions (W x H x L)	12.4 x 11.8 x 26.6" (315 x 300x 675 mm)							
Shipping Weight	50 lbs (22.7 kg)	52 lbs (23.6 kg)	50 lbs (22.7 kg)	55 lbs (24.9 kg)	55 lbs (24.9 kg)	52 lbs (23.6 kg)	52 lbs (23.6 kg)	52 lbs (23.6 kg)
Operating temperature range	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C
Mounting	Wall-mount (with 16" mounting centers)					Wall-mount (with 16" mounting centers)		
Warranty	Two years	Two years	Two years	Two years	Two years	Two years	Two years	Two years

Regulatory Approvals								
CSA Certified to CSA 107.1, UL1741, FCC Class B and Industry Canada, CE								

Specifications subject to change without notice.