

Xantrex™ XW Hybrid Inverter/Charger

The NEXT generation inverter/charger for renewable energy systems and backup power applications



Xantrex™ brings the next generation of inverter/charger to market, with the XW Hybrid Inverter/Charger, the heart of the XW System. The XW Hybrid Inverter/Charger (XW) is a true sine wave, 120/240-volt AC, split-phase, inverter/charger that incorporates a DC to AC inverter, a battery charger, and an AC auto-transfer switch. It is the foundation for battery-based residential and commercial applications up to 18 kilowatts (kW). Capable of being grid-interactive or grid-independent, the XW can operate with generators and renewable energy sources to provide full-time or backup power.

Designed with consultation and input from industry experts, dealers, and installers, the XW sets a new standard for battery-based inverter/chargers. Integrating the best features available in the market, innovative new features by Xantrex and balance-of-systems components, the XW Hybrid Inverter/Charger's design makes installation quicker and easier. The XW offers high efficiency and unprecedented surge capacity to maximize the owner's return on investment. No other inverter/charger looks or performs like the XW.

Product Features

- ▶ True sine wave output
- ▶ 120/240 volt AC split-phase operation
- ▶ Dual AC inputs
- ▶ Integrated design to minimize external balance-of-system components
- ▶ XanBus™-enabled network communication
- ▶ Certified to UL1741 and CSA for utility-interactive applications
- ▶ Unprecedented surge capacity
- ▶ Efficient, power factor corrected, high-current, multistage battery charging

Optional Accessories

Item	Part Number
▶ XW Power Distribution Panel	865-1015
▶ XW Connection Kit for Second Inverter	865-1020
▶ XW Conduit Box	865-1025
▶ XW Solar Charge Controller	865-1030
▶ XW System Control Panel	865-1050
▶ XW Automatic Generator Start	865-1060

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Xantrex™ XW Series Hybrid Inverter/Charger

Electrical Specifications			
Model	XW6048-120/240-60	XW4548-120/240-60	XW4024-120/240-60
Continuous output power	6,000 W	4500 W	4000 W
Surge rating (10 seconds)	12,000 W	9000 W	8000 W
Surge current	L-N: 105 Arms (7 sec) L-L: 40 Arms (20 sec)	L-L: 52.5 Arms (7 sec) L-N: 70 Arms (20 sec)	L-N: 75 Arms (20 sec) L-L: 35 Arms (20 sec)
Waveform	True sine wave	True sine wave	True sine wave
Low-load efficiency	95%	95%	95%
Idle consumption - search mode	< 8 W	< 8 W	< 8 W
AC connections	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)
AC voltage	120/240 Vac split-phase	120/240 Vac split-phase	120/240 Vac split-phase
AC input breaker	60 A two-pole	60 A two-pole	60 A two-pole
Utility interactive	Yes	Yes	Yes
CEC weighted efficiency	92.5%	93%	91%
CEC power rating	5752 W	4500 W	4000 W
AC input voltage range (bypass/charge mode)	L-N: 80 - 150 Vac (120 V nominal); L-L: 160 - 270 Vac (240 V nominal)		
AC input frequency range (bypass/charge mode)	55 - 65 Hz (default); 44 - 70 Hz (allowable)		
AC1 voltage range – Sell mode (automatically adjusts when entering Sell mode)*	L-N: 108 - 130 +/- 1.5 Vac; L-L: 214 - 260 +/- 3.0 Vac		
AC1 frequency range – Sell mode (automatically adjusts when entering Sell mode)*	59.4 - 60.4 +/- 0.05 Hz		
AC output voltage	L-N: 120 Vac +/- 3%; L-L: 240 Vac +/- 3%		
AC output frequency	60.0 +/- 0.1 Hz		
DC current at rated power	130 A	96 A	178 A
Total harmonic distortion	< 5%		
Automatic transfer relay	60 A		
Typical transfer time	8 ms		
DC input voltage (nominal)	50.4 Vdc	50.4 Vdc	25.2 Vdc
DC input voltage range	44 - 64 Vdc	44 - 64 Vdc	22 - 32 Vdc
Maximum continuous charge rate	100 A	85 A	150 A
Efficiency at maximum charge rate	89.4%	90.2%	85.8%
Power factor corrected charging	0.98	0.98	0.98
Emissions	FCC Class B	FCC Class B	FCC Class B
Multiple-unit configurations	Up to three parallel units in 120/240-volt split-phase configuration		
Auxiliary relay output	0-12 Vdc, maximum 250 mA DC		
Non-volatile memory	Yes	Yes	Yes
System network	Xanbus™ (publish-subscribe network, no need for hubs or special cards)		
Mechanical Specifications			
Mounting	Wall mount, backplate included		
Inverter dimensions (H x W x D)	23 x 16 x 9" (580 x 410 x 230 mm)		
Inverter weight	125 lb (57 kg)	115 lb (52 kg)	115 lb (52 kg)
Shipping dimensions	28 x 22 ¼ x 10 ½" (711 x 565 x 267 mm)		
Shipping weight	132 lb (60 kg)	122 lb (55 kg)	122 lb (55 kg)
Display panel	Status LEDs indicate AC In status, faults/warnings, equalize mode, battery level. Three-character display indicates output power or charge current, fault/warning codes. On/Off and equalize buttons		
Battery temperature sensor	Included	Included	Included
Standard warranty	Five years (10 years optional)	Five years (10 years optional)	Five years (10 years optional)
Part number	865-1000	865-1005	865-1010
Environmental Specifications			
Enclosure type	NEMA Type 1 – Indoor (sensitive electronic components sealed inside enclosure)		
Operational temperature range	-13 to 158 °F (-25 to 70 °C)		
Accessories			
Remote display	Optional XW System Control Panel monitors and configures all devices connected to Xanbus™ Network		
Generator support	Optional XW Automatic Generator Start module connects to Xanbus™ Network. Automatically activates generator to recharge depleted battery bank or assist inverter with heavy loads		
Power distribution & panel conduit boxes	Optional balance-of-systems components for NEC compliant installations, includes pre-wired AC and DC circuit breakers, bus bars and multiple knockouts for conduit and additional breakers		
Regulatory Approvals			
UL 1741 1st Edition: 2005 Version CSA 107.1-01			

Specifications subject to change without notice