

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

For more information on the XW System please visit www.xantrex.com/xw

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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)		
Shipping dimensions	28 x 22 ¼ x 10 ½" (711 x 565 x 267 mm)		
Inverter weight	121.7 lb (55.2 kg)	118 lb (53.5 kg)	116 lb (52.5 kg)
Shipping weight	169 lb (76.7 kg)	165 lb (75 kg)	163 lb (74 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