

Xantrex XW Series

The New standard in battery-based systems



Xantrex XW Series offers an innovative, integrated design

The superior integration of the XW Series design minimizes external balance-of-system components allowing for much quicker and easier installation. All XW system components communicate together over the Xanbus™ network. Common system settings are shared between devices on the network to facilitate setup.

XW Hybrid Inverter/Charger:

- ▶ Certified to UL1741 and CSA for utility-interactive applications (no need to purchase a different model/component depending on application)
- ▶ 120/240 V split-phase, sine-wave output (no need for auto-transformer or stacking of inverters)
- ▶ Unsurpassed surge capacity (innovative full digital control regulates voltage from dropping during surge). Full 200% rated output power is delivered to load
- ▶ Efficient, power-factor-corrected, high-current multi-stage battery charging (minimizes recharge time, electricity/fuel costs and prolongs battery life)
- ▶ Easier and less expensive to install - mounting bracket is included (no need to purchase a backplate) and the Power Distribution Panel includes all AC/DC disconnects and wiring (no need to individually purchase separate components)
- ▶ Xanbus network enabled

XW Power Distribution Panel:

- ▶ Factory wired and labelled to support one inverter in a code-compliant manner, with wiring space and conduit and breaker knockouts to add up to three inverters, and/or four charge controllers
- ▶ Includes wall-mounting bracket, conduit box/raceway with barriers to ensure separation between low-voltage communication cables and AC and DC wires; field-reversible door with magnetic catch

XW Connection Kit for 2nd Inverter

- ▶ Includes conduit box and all AC/DC breakers and wires needed to connect a second inverter into the XW Power Distribution Panel.
- ▶ All wires are pre-cut and labelled to facilitate easy installation

XW Conduit Box:

- ▶ Bare conduit box (no wires) for systems with more than two inverters or to retrofit XW inverters into existing systems that may already have AC/DC disconnects

XW Solar Charge Controller:

- ▶ 60 amp solar charge controller with integrated PV ground fault protection
- ▶ Accepts PV arrays with open circuit voltage up to 150 volts DC
- ▶ Employs dynamic maximum power point tracking (no mini or full sweeps)
- ▶ Convection cooled - no fan
- ▶ 5 year standard warranty
- ▶ Xanbus network enabled

XW System Control Panel:

- ▶ Plugs into Xanbus network and provides a central user interface to configure and monitor all components in the system.

XW Automatic Generator Start:

- ▶ Automatically activating generator to recharge depleted battery bank or assist with heavy loads to provide intelligent power management

XW Series Hybrid Inverter/Charger

Product Specifications

Model	XW6048-120/240-60	XW4548-120/240-60	XW4024-120/240-60
Continuous output power	6.0 kW	4.5 kW	4.0 kW
5 second surge	12.0 kW	9.0 kW	8.0 kW
Waveform	True sine	True sine	True sine
Low load efficiency	95%	95%	95%
Full load efficiency	91%	91%	91%
Idle consumption - invert mode, no load	28 W	26 W	24 W
Idle consumption - search mode	< 8 W	< 8 W	< 8 W
AC inputs	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 double-pole	60 A double-pole	60 A double-pole
AC output voltage	L-N: 120 Vac +/-3% L-L: 240 Vac +/-3%	L-N: 120 Vac +/-3% L-L: 240 Vac +/-3%	L-N: 120 Vac +/-3% L-L: 240 Vac +/-3%
AC output frequency	60.0 Hz +/-0.1 Hz	60.0 Hz +/-0.1 Hz	60.0 Hz +/-0.1 Hz
AC output breaker	60 A double-pole	60 A double-pole	60 A double-pole
DC current at rated power	127 A	95 A	171 A
Continuous charge rate at L-L voltage	100 A	85 A	150 A
Automatic transfer relay	60 A	60 A	60 A
Utility-interactive	Yes	Yes	Yes
CEC weighted efficiency	93%	TBD	TBD
CEC power rating	6 kW	4.5 kW	4.0 kW
DC input voltage (nominal)	48 Vdc	48 Vdc	24 Vdc
DC input voltage range	44 to 64 Vdc	44 to 64 Vdc	22 to 32 Vdc
Power factor corrected charging	0.99	0.99	0.99
Emissions	FCC Class B	FCC Class B	FCC Class B
Display panel	Status-at-a-glance LED's indicate AC-in status, faults/warnings, equalize mode, battery state-of-charge. Three character LCD indicates output power or charge current. On/off and equalize buttons.		
Multiple unit configurations	Up to three parallel units in 120/240 split-phase configuration.		
Auxiliary relay output	Configurable 0 to 12 Vdc output, maximum 250 mAdc Adjustable triggers: low/high battery voltage or temp, fault condition		
Non volatile memory	Yes	Yes	Yes
System network	Plug-n-play Xanbus network, no need for hubs or special cards, allows up to 20 devices on network		
Standard Warranty	5 years	5 years	5 years
Field Serviceable	Yes, all components can be replaced while unit is installed on wall		
Enclosure Type	NEMA Type 1 - Indoor (sensitive electronic components sealed inside enclosure)		
Mounting	Wall mount, backplate included	Wall mount, backplate included	Wall mount, backplate included
Operational temperature range	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Dimensions (W x L x D)	16 x 23 x 9"	16 x 23 x 9"	16 x 23 x 9"
Weight	125 lb	115 lb	115 lb
Battery temperature sensor	Included	Included	Included
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