

Smart choice for power™

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