

# Xantrex™ XW Hybrid Inverter/Charger

230 Vac / 50 Hz models



## 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 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. Up to three inverters can be installed to create larger single-phase and three-phase systems allowing for increased capacity.

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
- ▶ Single phase (230 Vac) and three phase (400/230 Vac) configurations possible
- ▶ Dual AC inputs
- ▶ Several units can be connected in parallel
- ▶ XanBus™-enabled network communication
- ▶ Unprecedented surge capacity
- ▶ Efficient, power factor corrected, high-current, multistage battery charging

### Optional Accessories

#### Item Part Number:

|                              |          |
|------------------------------|----------|
| 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](http://www.xantrex.com/xw)

## Xantrex Technology Inc.

### Headquarters

8999 Nelson Way  
Burnaby, British Columbia  
Canada V5A 4B5  
800 670 0707 Toll Free  
604 420 1591 Fax

Edificio Diagonal 2A  
C/Constitución 3, 4º, 2ª  
08960 Sant Just Desvern  
Barcelona, Spain  
+34 93 470 5330 Tel  
+34 93 473 6093 Fax  
[europesales@xantrex.com](mailto:europesales@xantrex.com)

[www.xantrex.com](http://www.xantrex.com)

## XW Series Hybrid Inverter/Charger - 230 Vac / 50 Hz Models

| Electrical Specifications                     |   |                                |                                |
|---|---|--------------------------------|--------------------------------|
|   | XW6048-230-50   | XW4548-230-50                  | XW4024-230-50                  |
| Continuous output power                       | 6.000 W   | 4.500 W                        | 4.000 W                        |
| Surge rating                                  | 12.000 W  | 9.000 W                        | 8.000 W                        |
| Surge current                                 | 53 A rms  | 40 A rms                       | 35 A rms                       |
| Waveform                                      | True sine wave  | True sine wave                 | True sine wave                 |
| Peak efficiency                               | 95,4 %  | 95,6 %                         | 94,0 %                         |
| Idle consumption - search mode                | < 7 W   | < 7 W                          | < 7 W                          |
| AC connections                                | AC1 (grid), AC2 (generator)   | AC1 (grid), AC2 (generator)    | AC1 (grid), AC2 (generator)    |
| AC input voltage range (bypass/charge mode)   | 156 to 280 Vac (230 V nominal)  | 156 to 280 Vac (230 V nominal) | 156 to 280 Vac (230 V nominal) |
| AC input frequency range (bypass/charge mode) | 40 to 68 Hz (50 Hz nominal)   | 40 to 68 Hz (50 Hz nominal)    | 40 to 68 Hz (50 Hz nominal)    |
| AC output voltage                             | 230 Vac +/- 3%  | 230 Vac +/- 3%                 | 230 Vac +/- 3%                 |
| Maximum AC pass through current               | 56 A  | 56 A                           | 56 A                           |
| AC output continuous current                  | 26,1 A  | 19,6 A                         | 17,4 A                         |
| AC output frequency                           | 50 Hz +/- 0,1 Hz  | 50 Hz +/- 0,1 Hz               | 50 Hz +/- 0,1 Hz               |
| Total harmonic distortion                     | < 5% at rated power   | < 5% at rated power            | < 5% at rated power            |
| Typical transfer time                         | 8 ms  | 8 ms                           | 8 ms                           |
| DC current at rated power                     | 131 A   | 96 A                           | 178 A                          |
| Utility-interactive                           | Disabled (default), AC voltage range 198 to 253 Vac, AC frequency range 49,1 to 50,9 Hz |                                |                                |
| DC input voltage range                        | 44 to 64 V  | 44 to 64 V                     | 22 to 32 V                     |
| Continuous charge rate                        | 100 A   | 85 A                           | 150 A                          |
| Power factor corrected charging               | PF (0,98)   | PF (0,98)                      | PF (0,98)                      |

| Mechanical Specifications       |   |                |                |
|---------------------------------|---|----------------|----------------|
| Mounting                        | Wall mount, backplate included  |                |                |
| Inverter dimensions (H x W x D) | 580 x 410 x 230 mm (23 x 16 x 9")   |                |                |
| Inverter weight                 | 57 kg (125 lb)  | 52 kg (115 lb) | 52 kg (115 lb) |
| Shipping dimensions             | 711 x 565 x 267 mm (28 x 22.25 x 10.5")   |                |                |
| Shipping weight                 | 60 kg (132 lb)  | 55 kg (122 lb) | 55 kg (122 lb) |
| Supported battery types         | Flooded (default), Gel, AGM, custom   |                |                |
| Battery bank size               | 100 to 10000 Ah   |                |                |
| Battery temperature sensor      | Included  | Included       | Included       |
| Non volatile memory             | Yes   | Yes            | Yes            |
| Display panel                   | Status LEDs indicate AC In status, faults/warnings, equalize mode, On/Off and equalize button battery level. Three-character display indicates output power or charge current |                |                |
| Multiple unit configurations    | Single phase: up to 3 parallel units. Three-phase: 1 unit per phase   |                |                |
| System network                  | Xanbus™   | Xanbus™        | Xanbus™        |
| Warranty                        | 5 years   | 5 years        | 5 years        |
| Part number                     | 865-1035  | 865-1040       | 865-1045       |

| Environmental specifications  |   |              |              |
|-------------------------------|---|--------------|--------------|
| Enclosure type                | IP 20 (sensitive electric components sealed inside enclosure) |              |              |
| Operational temperature range | -25 to 70 °C  | -25 to 70 °C | -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             |
| Conduit Box             | Optional XW Conduit Box encloses the bottom of the inverter and protects the cabling. Provides knockouts for 3/4" (20 mm), 1" (25 mm), 1.25" (32 mm), 2.25" (60 mm), and 2.5" (65 mm) conduit |
| Solar Charge Controller | Optional XW Solar Charge Controller with maximum power point tracking delivers the maximum energy available from the PV array to the battery bank   |

## Regulatory Approval

CE marked according to the following EU directives and standards: EMC Directive: EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3; Low Voltage Directive: EN50178

Specifications subject to change without notice.