

XW Hybrid Inverter/Charger



The NEXT Generation Inverter/Charger for Renewable Energy Systems and Backup Power Applications

Trinity Solar brings the next generation of inverter/charger to market with the XW Hybrid Inverter/Charger, the heart of the XW System. Designed for off-grid and backup power applications, the XW can operate with generators and renewable energy sources to provide reliable power.

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 applications up to 18 kilowatts (kW), and commercial applications up to 36 kW in a three-phase configuration.

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 Trinity Solar 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

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	865-1060

For more information on the XW System please visit www.trinitysolar.com

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XW

Electrical Specifications

	XW6048-230-50	XW4548-230-50	XW4024-230-50
Continuous output	6000 W	4500 W	4000 W
Surge rating	12000 W	9000 W	8000 W
Surge current	53 A rms	40 A rms	35 A rms
Waveform	True sine wave	True sine wave	True sine wave
Peak	95,4 %	95,6 %	94,0 %
Idle consumption - search	< 7 W	< 7 W	< 7 W
AC	AC1 (grid), AC2	AC1 (grid), AC2	AC1 (grid), AC2
AC input voltage range (bypass/charge)	156 to 280 Vac (230 V)	156 to 280 Vac (230 V)	156 to 280 Vac (230 V)
AC input frequency range (bypass/charge)	40 to 68 Hz (50 Hz)	40 to 68 Hz (50 Hz)	40 to 68 Hz (50 Hz)
AC output	230 Vac +/- 3%	230 Vac +/- 3%	230 Vac +/- 3%
Maximum AC pass through	56 A	56 A	56 A
AC output continuous	26,1 A	19,6 A	17,4 A
AC output	50 Hz +/- 0,1	50 Hz +/- 0,1	50 Hz +/- 0,1
Total harmonic	< 5% at rated power	< 5% at rated power	< 5% at rated power
Typical transfer	8 ms	8 ms	8 ms
DC current at rated	131 A	96 A	178 A
Utility-	Disabled (default), AC voltage range 198 to 253 Vac, AC frequency range 49,1 to		
DC input voltage	44 to 64 V	44 to 64 V	22 to 32 V
Continuous charge rate	100 A	85 A	150 A
Power factor corrected	0,98	0,98	0,98

Mechanical Specifications

Mounting	Wall mount, backplate	Wall mount, backplate	Wall mount, backplate
Inverter dimensions (H x W x D)	580 x 410 x 230 mm (23 x 16 x 9)	580 x 410 x 230 mm (23 x 16 x 9)	580 x 410 x 230 mm (23 x 16 x 9)
Inverter weight	55,2 kg (121.7 lb)	53,5 kg (118 lb)	52,5 kg (116 lb)
Shipping dimensions (H x W x D)	711 x 565 x 267 mm (28 x 22.25 x 10.5)	711 x 565 x 267 mm (28 x 22.25 x 10.5)	711 x 565 x 267 mm (28 x 22.25 x 10.5)
Shipping weight	76,7 kg (169 lb)	75 kg (165 lb)	74 kg (163 lb)
Supported battery	Flooded (default), Gel, AGM,	Flooded (default), Gel, AGM,	Flooded (default), Gel, AGM,
Battery bank	100 to 10000 Ah	100 to 10000 Ah	100 to 10000 Ah
Battery temperature	Included	Included	Included
Non volatile	Yes	Yes	Yes
Display	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	Single phase: up to 3 parallel units. Three-phase: 2 units 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	IP 20 (sensitive electric components sealed inside)		
Operational temperature	-25 to 70 °C	-25 to 70 °C	-25 to 70 °C

Accessories

Remote	XW System Control Panel monitors and configures all devices connected to Xanbus™
Generator support	XW Automatic Generator Start module connects to Xanbus™ Network. Automatically activates generator to recharge depleted battery bank or assist inverter with heavy loads
Conduit	XW Conduit Box encloses the bottom of the inverter and protects the cabling. Provides knockouts for 3/4" (20 mm), 1" (25 mm),
Solar Charge	XW Solar Charge Controller with maximum power point tracking delivers the maximum energy available from the PV array to the inverter

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

Note: Specifications subject to change without notice