

SW Plus 2500, 4000 and 5500

xantrex

Xantrex Sine Wave Plus Inverter/Charger Series



Power Independence in a Powerful Package

Based on the proven platform of the SW Inverter/Charger Series, Xantrex SW Plus models are designed to provide homes with a completely independent power supply. Each model combines an inverter, battery charger and dual transfer switch in one package.

As part of an off-grid renewable power system, SW Plus Inverter/Chargers convert all forms of renewable energy into utility grade household power. They can also be used as part of a backup power system to automatically provide AC power when utility power fails. For supplementary power, the inverter/chargers can be programmed to automatically start and stop a generator, based on user needs. To save on utility bills, the SW Plus can also be programmed to switch to battery power from utility power during peak-rate periods. The SW Plus is not designed to sell power back to the grid.

Product Features

- ▶ 2.5, 4.0 and 5.5 kVA continuous output of sine wave power (to 40° C)
- ▶ Huge surge (inrush current) capacity – up to four times rated output for starting large loads
- ▶ High capacity, multi-function battery charger provides accurate four stage re-charging and maintenance
- ▶ Smart Energy Management system controls utility and/or generator usage
- ▶ Non-volatile memory provides the SW Plus with the ability to save customized settings
- ▶ FCC Part B compliant means less potential interference with radio and telephone equipment
- ▶ Energy efficient with 95% peak efficiency and <20 watts of idle current (<2 watt in search mode)

Options

- ▶ Expandable – two SW Plus inverters may be stacked for increased output in 120/240 VAC
- ▶ Matching AC and DC conduit boxes for code compliant installation
- ▶ Generator Start Module used to control either two and three wire start generators
- ▶ Auxiliary Load Module used to automatically start and stop auxiliary DC loads such as fans based on programmable voltage parameters
- ▶ Inverter Communications Adapter allows for remote connection to SW Plus via PC
- ▶ An additional Inverter Control Module (ICM built-in to SW Plus) may be installed for remote operation and monitoring of inverter/charger

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Electrical Specifications

	2524	2548	4024	4048	5548
AC Input Voltage (nominal)	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
AC Input Voltage Range, adjustable	80-150 VAC	80-150 VAC	80-150 VAC	80-150 VAC	80-150 VAC
AC Input Current (60 amps AC pass through)	20 amps charging	20 amps charging	30 amps charging	30 amps charging	45 amps charging
Continuous Power @ 25 °C	2.5 KVA	2.5 KVA	4.0 KVA	4.0 KVA	5.5 KVA
Efficiency (peak in Invert mode)	95%	95%	94%	95%	95%
Inverter Voltage (RMS)	120 VAC	120 VAC	120 VAC	120 VAC	120 VAC
Inverter Voltage Regulation	± 3%	± 3%	± 3%	± 3%	± 3%
Frequency (Nominal ± 0.04% Crystal Controlled) Inverter mode	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Continuous Output Current (@ 25 °C)	21 A rms	21 A rms	33 A rms	33 A rms	46 A rms
Current Surge Capability@ 25 °C 5 Sec Rating	80 A rms	80 A rms	85 A rms	95 A rms	105 A rms
Over current trip point	125 A peak	175 A peak	125 A peak	175 A peak	175 A peak
Inverter Voltage THD (Resistive load)	< 5%	< 5%	< 5%	< 5%	< 5%
Automatic Transfer Relay	60 A rms	60 A rms	60 A rms	60 A rms	60 A rms
DC Input Voltage (Nominal)	25.2 VDC	50.4 VDC	25.2 VDC	50.4 VDC	50.4 VDC
DC Input Voltage Range	22-32 VDC	44-64 VDC	22-32 VDC	44-64 VDC	44-64 VDC
DC Current at Rated Power (internal temperature stabilized)	120 amps DC	60 amps DC	190 amps DC	95 amps DC	135 amps DC
Idle Consumption (Typical at full voltage)	< 16 watts	< 20 watts	< 16 watts	< 20 watts	< 20 watts
Search Mode Consumption	< 2 watts	< 2 watts	< 2 watts	< 2 watts	< 2 watts
Continuous Charge Rate@ 120VAC input (See Note 1 below)	70 amps DC	40 amps DC	110 amps DC	60 amps DC	75 amps DC

Mechanical Specifications

Operating Temperature Range

Unit will meet specifications	32 °F to 77 °F (0 °C to 25 °C)
Unit may not meet specifications	-13 °F to 140 °F (-25 °C to 60 °C)
Storage	-67 °F to 284 °F (-55 °C to 140 °C)
Enclosure Type	Indoor, ventilated, Galvaneel chassis with powdercoat finish
Unit Weight	105 lb (48 kg) 113 lb (51 kg) 105 lb (48 kg) 113 lb (51 kg) 136 lb (62 kg)
Shipping Weight	111 lb (50 kg) 120 lb (54 kg) 111 lb (50 kg) 120 lb (54 kg) 143 lb (65 kg)
Inverter Dimensions (H x W x D)	15-1/8" x 21" x 8-7/8" (38 cm x 53 cm x 22 cm)
Shipping Dimensions (H x W x D)	20" x 27-7/8" x 14-1/4" (51 cm x 71 cm x 36 cm)
Mounting	Wall Mount/Shelf

Features

Forced Air Cooling	Standard variable speed brushless DC fans
Multi-stage charging	Bulk, absorption, float/ silent, and equalize
Control Panel	Standard built-in, two line, backlit, alphanumeric LCD with 8 LED indicators
Battery Temperature Sensor (BTS)	BTS - standard remote battery temperature sensor for increased battery performance
Warranty	2 years

Options

Generator Start Module (GSM)	Automatic generator control system for two and three wire start AC and DC generators
Auxiliary Load Module (ALM)	User adjustable voltage controlled signal relays for control of loads or charging sources
Remote Inverter Control Module (ICM)	Optional full function remote control with LCD and LED indicators
Stacking Interface (ISC-S)	Optional cable for series stacking of two identical SW Plus units for 120/240 VAC output
DC Conduit Box (DCCB)	Optional side mount conduit box for code-compliant DC wiring connections (USA)
AC Conduit Box (ACCB)	Optional side mount conduit box for code-compliant AC wiring connections with by pass/disconnect circuit breakers

Common Specifications

Waveform	Sine wave, 34 to 52 steps per cycle
Load Sensing (Inverter Mode)	Adjustable 8 to 255 watts (8 watts default)
Listings	CSA listed to UL 1741 and CSA107.1 FCC Class B