

SW Plus 2500, 4000 and 5500

Xantrex Sine Wave Plus Inverter/Charger Series



Power Independence in a Powerful Package

Designed to provide homes with a completely independent power supply, the SW Plus 2500, 4000 and 5500 Inverter/Charger Series combine an inverter, battery charger and dual transfer switch in one package.

Available in 24- and 48-volt versions, the SW Plus Series offers continuous power output of 2.5, 4.0 and 5.5 kVA. The SW Plus provides AC power for household appliances and DC power to charge batteries. As part of an off-grid renewable power system, it converts all forms of renewable energy into utility grade household power.

The SW Plus 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/charger can be combined with the optional Generator Start Module (GSM) 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.

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 | 4024 | 2548 | 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 | 30 amps charging | 20 amps charging | 30 amps charging | 45 amps charging |
| Continuous Power @ 25 °C | 2.5 KVA | 4.0 KVA | 2.5 KVA | 4.0 KVA | 5.5 KVA |
| Efficiency (peak in Invert mode) | 95% | 95% | 95% | 95% | 96% |
| 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 | 33 A rms | 21 A rms | 33 A rms | 46 A rms |
| Current Surge Capability@ 25 °C 5 Sec Rating | 80 A rms | 85 A rms | 80 A rms | 95 A rms | 105 A rms |
| Over current trip point | 125 A peak | 125 A peak | 175 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 | 25.2 VDC | 50.4 VDC | 50.4 VDC | 50.4 VDC |
| DC Input Voltage Range | 22-32 VDC | 22-32 VDC | 44-64 VDC | 44-64 VDC | 44-64 VDC |
| DC Current at Rated Power (internal temperature stabilized) | 120 amps DC | 190 amps DC | 60 amps DC | 95 amps DC | 135 amps DC |
| Idle Consumption (Typical at full voltage) | < 16 watts | < 16 watts | < 20 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 | 110 amps DC | 40 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

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| 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 |

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 (SWI) | 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) |
| DC Conduit Box Fused (DCCB-F) | Optional side mount conduit box for code-compliant DC wiring connections with fuse (Canada) |
| AC Conduit Box (ACCB) | Optional side mount conduit box for code-compliant AC wiring connections with by pass/disconnect circuit breakers |

Common Specifications

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|------------------------------|--|
| 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 |