

SW Inverter/Charger

Advanced Sine Wave Power Conversion Center - 230 VAC/50 Hz Models



The SW Inverter/Charger is our most popular off-grid power solution. Available in 24- and 48-volt models, it provides utility-grade output power and offers high surge capacity to run most household appliances. The SW offers many programmable features including automatic generator start and stop and automatic load sensing. Its built-in, fully automatic, three-stage battery charger is designed to bring maximum charge to batteries, while using minimum generator run time and fuel.

Features

- ▶ Available in 4000 and 5500 watt models.
- ▶ Utility grade, sine wave power.
- ▶ Durable construction for long life under extreme environmental conditions.
- ▶ Three-stage battery charging (bulk, absorption, and float) and battery equalization with remote temperature sensor for increased performance.
- ▶ Programmable control module with LCD display and LED indicators.
- ▶ Low idle current (less than 1 watt) conserves energy when no loads are present.
- ▶ Soft start capability for starting heavy loads.
- ▶ Built in starting control circuits for two and three-wire generator starting systems.

Expandable & Flexible

- ▶ Parallel stacking capability for more power at the same voltage (optional equipment is required).
- ▶ Three phase configurations available in a Power Module System for industrial quality power in remote locations (optional equipment is required; only available on 48 volt models).

Xantrex Technology Inc.

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

Europe
 Edificio Diagonal 2A,
 C/ Constitución 3, 4²a
 08960 Sant Just Desvern
 Barcelona, Spain
 General Tel: +34 93.470.5330
 General Fax: +34 93.473.6093

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Electrical Specifications

| Models | SW3024E | SW3048E | SW4548E |
|--|--|-------------------------|------------------------------------|
| AC Input Voltage | 230 VAC | 230 VAC | 230 VAC |
| AC Input Voltage Range | 150-288 VAC | 150-288 VAC | 150-288 VAC |
| AC Input Current | 30 amps AC pass through | 30 amps AC pass through | 30 amps AC pass through |
| | 15 amps AC charging | 15 amps AC charging | 15 amps AC charging |
| Continuous Power (@ 25 °C) | 3300 VA | 3300 VA | 4500 VA |
| Efficiency (Peak) | 94% | 95% | 96% |
| Output Voltage (RMS) | 230 VAC | 230 VAC | 230 VAC |
| Output Voltage Regulation | ± 5% | ± 5% | ± 5% |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| | | | Nominal ± 0.04% Crystal Controlled |
| Continuous Output (@ 25 °C) | 14 amps AC | 14 amps AC | 19 amps AC |
| 100 mSec Surge Capability | 38 amps AC | 38 amps AC | 38 amps AC |
| Automatic Transfer Relay | 30 amps | 30 amps | 30 amps |
| DC Input Voltage (Nominal) | 24 VDC | 48 VDC | 48 VDC |
| DC Input Voltage Range | 22-33 VDC | 44-66 VDC | 44-66 VDC |
| DC Current at Rated Power | 176 amps DC | 88 amps DC | 120 amps DC |
| Short Circuit Current | 320 amps DC | 160 amps DC | 180 amps DC |
| Idle Consumption (Typ at Full Voltage) | < 16 watts | < 16 watts | < 20 watts |
| Search Mode Consumption | < 1 watt | < 1 watt | < 1 watt |
| Low Battery Protection (Enabled) | Adjustable low battery cut out and cut in (all models) | | |
| Max. Continuous Charge Rate | 100 amps DC | 50 amps DC | 60 amps DC |
| Total Voltage Harmonic Distortion | < 5% | < 5% | < 5% |
| Waveform | Sine wave, 34 to 52 steps per cycle | | |
| Load Sensing (Inverter Mode) | Adjustable, 0 to over 200 watts (48 watts default) | | |
| Power Factor (allowed) | -1 to 1 pf | -1 to 1 pf | -1 to 1 pf |

General Specifications

| | | | |
|---------------------------------|--|----------------|----------------|
| Specified Temperature Range | 32 °F to 77 °F (0 °C to 25 °C) | | |
| Enclosure Type | Indoor, ventilated, steel chassis with powdercoat finish | | |
| Unit Weight | 105 lb (48 kg) | 105 lb (48 kg) | 136 lb (63 kg) |
| Shipping Weight | 111 lb (50 kg) | 111 lb (50 kg) | 143 lb (65 kg) |
| Inverter Dimensions (H x W x D) | 15" x 22.5" x 9" (38 cm x 57 cm x 23 cm) | | |
| Shipping Dimensions | 20" x 27" x 15" (52 cm x 69 cm x 40 cm) | | |
| Mounting | Wall mount | | |
| Warranty | 2 years | | |
| Part Numbers | SW3024E, SW3048E, SW4548E | | |

Features & Options

| | |
|-------------------------------|--|
| Forced Air Cooling | Standard - variable speed brushless DC fans |
| Three-stage charging | Standard - three-stage with equalization (bulk, absorption, and float) |
| Control Panel | Standard - built-in, two line, backlit, alphanumeric LCD with 8 LED status indicators |
| Auto Generator Control System | Standard - automatic generator control system for two and three wire start generators |
| Auxiliary Relays | Standard - three user adjustable voltage controlled signal relays for control of loads or charging sources |
| Battery Temperature Sensor | BTS - standard remote battery temperature sensor for increased battery performance |
| Remote Control | SWRC - optional remote control and status indicator |
| Stacking Interface | SWI/PAR/E - optional for paralleling two identical SW units for twice the power output at 230 VAC/50 Hz |
| Conduit Box | SWCB - optional side mount conduit box for code-compliant DC wiring connections |

Regulatory Approvals

CE Mark