

SW Inverter/Charger

Advanced Sine Wave Power Conversion Center - 240 VAC/50 Hz



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	SW4548A
AC Input Voltage	240 VAC
AC Input Voltage Range	170 - 298 VAC
AC Input Current	30 amps AC pass thru 15 amps AC charging
Continuous Power (@ 25 °C)	4500 VA
Efficiency (Peak)	96%
Output Voltage (RMS)	240 VAC
Output Voltage Regulation	± 3%
Frequency (Nominal)	
± 0.04% Crystal Controlled	50 Hz
Continuous Output (@ 25 °C)	19 amps AC
100 mSec Surge Capability	34 amps AC
Automatic Transfer Relay	30 amps
DC Input Voltage (Nominal)	48 VDC
DC Input Voltage Range	44-66 VDC
DC Current at Rated Power	120 amps DC
Short Circuit Current	180 amps DC
Idle Consumption	
Typ at Full Voltage	< 20 watts
Search Mode Consumption	< 1 watt
Low Battery Protection (Enabled)	Adjustable low battery cut out (all models)
Max. Continuous Charge Rate	60 amps DC
Total Voltage Harmonic Distortion	< 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

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	136 lb (63 kg)
Shipping	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 Number	SW4548A

Features & Options

Forced Air Cooling	Standard - variable speed brushless DC fans
Three-stage Charging	Standard - three-stage (bulk, absorption, and float) with equalization
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
Conduit Box	SWCB - optional side mount conduit box for code-compliant DC wiring connections

Regulatory Approvals

CE Mark