

SW Inverter/Charger

xantrex

Advanced Sine Wave Power Conversion Center - 105 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).

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Electrical Specifications

Models	SW3024J	SW4048J
AC Input Voltage	105 VAC	105 VAC
AC Input Voltage Range	70 - 129 VAC	70 - 129 VAC
AC Input Current	60 amps AC pass thru 30 amps AC charging	60 amps AC pass thru 30 amps AC charging
Continuous Power (@ 25 °C)	3000 VA	4000 VA
Efficiency (Peak)	94%	95%
Output Voltage (RMS)	105 VAC	105 VAC
Output Voltage Regulation	± 3%	± 3%
Frequency (Nominal)		
± 0.04% Crystal Controlled	50 Hz	50 Hz
Continuous Output (@ 25 °C)	28 amps AC	38 amps AC
100 mSec Surge Capability	78 amps AC	78 amps AC
Automatic Transfer Relay	60 amps	60 amps
DC Input Voltage (Nominal)	24 VDC	48 VDC
DC Input Voltage Range	22-33 VDC	44-66 VDC
DC Current at Rated Power	160 amps DC	107 amps DC
Short Circuit Current	180 amps DC	160 amps DC
Idle Consumption		
Typ at Full Voltage	< 10 watts	< 16 watts
Search Mode Consumption	< 1 watt	< 1 watt
Low Battery Protection (Enabled)	Adjustable low battery cut out (all models)	
Max. Continuous Charge Rate	100 amps DC	60 amps DC
Total Voltage Harmonic		
Distortion	< 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

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)
Shipping	111 lb (50 kg)	111 lb (50 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	SW3024J	SW4048J

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