

SW Inverter/Charger

Advanced Sine Wave Power Conversion Center - 220 VAC/60 Hz



The SW Inverter/Charger is our most popular solution for backup or off-grid power. The SW4024W 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

- ▶ 4000 watts of utility grade, sinewave power.
- ▶ Inverts from and charges 24V battery bank.
- ▶ 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).

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Electrical Specifications

Models	SW4024W
AC Input Voltage	220 VAC
AC Input Voltage Range	160 - 288 VAC
AC Input Current	30 amps AC pass thru
	15 amps AC charging
Continuous Power (@ 25 °C)	4000 VA
Efficiency (Peak)	94%
Output Voltage (RMS)	220 VAC
Output Voltage Regulation	± 3%
Frequency (Nominal)	
± 0.04% Crystal Controlled	60 Hz
Continuous Output (@ 25 °C)	18 amps AC
100 mSec Surge Capability	38 amps AC
Automatic Transfer Relay	30 amps
DC Input Voltage (Nominal)	24 VDC
DC Input Voltage Range	22-33 VDC
DC Current at Rated Power	214 amps DC
Short Circuit Current	360 amps DC
Idle Consumption	
Typ at Full Voltage	< 16 watts
Search Mode Consumption	< 1 watt
Low Battery Protection (Enabled)	Adjustable low battery cut out (all models)
Max. Continuous Charge Rate	120 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	105 lb (48 kg)
Shipping	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 Number	SW4024W

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