

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).

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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