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

AC Input Current 15 amps AC pt 15 amps AC pt 15 amps AC pt 3300 VA Efficiency (Peak) 94% Output Voltage (RMS) 230 VAC Output Voltage Regulation Frequency 50 Hz Continuous Output (@ 25 °C) 14 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 176 amps DC Short Circuit Current 320 amps DC Idle Consumption (Typ at Full Voltage) Search Mode Consumption 4 watt Low Battery Protection (Enabled) Max. Continuous Charge Rate 100 amps DC Total Voltage Harmonic Distortion Waveform Sine wave, 34 Load Sensing (Inverter Mode) Adjustable, 0 the following of	15 amp 3300 V/ 95% 230 VA ± 5% 50 Hz 14 amp 38 amp 30 amp 48 VDC 44-66 V 88 amp 160 am < 16 w < 1 wa	as VAC as AC pass through as AC charging A C as AC	230 VAC 150-288 VAC 30 amps AC pass through 15 amps AC charging 4500 VA 96% 230 VAC ± 5% 50 Hz 19 amps AC 38 amps AC 30 amps	Nominal ± 0.04% Crystal Controlled	
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Idle Consumption (Typ at Full Voltage) < 16 watts Search Mode Consumption < 1 watt Low Battery Protection (Enabled) Adjustable low Max. Continuous Charge Rate 100 amps DC Total Voltage Harmonic Distortion < 5% Waveform Sine wave, 34 Load Sensing (Inverter Mode) Adjustable, 0 t Power Factor (allowed) -1 to 1 pf General Specifications Specified Temperature Range 32 °F to 77 °F Enclosure Type Indoor, ventila Unit Weight 105 lb (48 kg) Shipping Weight 111 lb (50 kg) Inverter Dimensions (H x W x D) 15" x 22.5" x Shipping Dimensions 20" x 27" x 15 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - thr Control Panel Standard - bui	< 16 w		180 amps DC		
Search Mode Consumption <1 watt Low Battery Protection (Enabled) Adjustable low Max. Continuous Charge Rate 100 amps DC Total Voltage Harmonic Distortion <5% Waveform Sine wave, 34 Load Sensing (Inverter Mode) Adjustable, 0 to 1 pf General Specifications Specified Temperature Range 32 °F to 77 °F Enclosure Type Indoor, ventila Unit Weight 105 lb (48 kg) Inverter Dimensions (H x W x D) 15" x 22.5" x Shipping Dimensions 20" x 27" x 15 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - bui	< 1 wa		< 20 watts		
Low Battery Protection (Enabled) Max. Continuous Charge Rate 100 amps DC Total Voltage Harmonic Distortion Vaveform Sine wave, 34 Load Sensing (Inverter Mode) Power Factor (allowed) General Specifications Specified Temperature Range 105 lb (48 kg) Shipping Weight 111 lb (50 kg) Inverter Dimensions (H x W x D) Shipping Dimensions Wall mount Warranty Part Numbers Wall mount Features & Options Forced Air Cooling Standard - var Three-stage charging Sine wave, 34 100 amps DC 100 amps De			< 1 watt		
Max. Continuous Charge Rate Total Voltage Harmonic Distortion < 5% Waveform Sine wave, 34 Load Sensing (Inverter Mode) Power Factor (allowed) General Specifications Specified Temperature Range Indoor, ventila Unit Weight Shipping Weight Intl lb (50 kg) Inverter Dimensions (H x W x D) Shipping Dimensions Wall mount Warranty Part Numbers Wall would be supported by standard - var Three-stage charging Standard - three-stage charging Sine wave, 34 Adjustable, 0 to 5% Adjustable, 0 to 7° F Into 1 pf 100 amps DC 5% Adjustable, 0 to 7° F Into 1 pf 101 by 1 to 1 pf 102 by 2 or 7° F 103 by 2 or 7° F 111 lb (50 kg) 111 lb (50 kg) 112 by 22.5" x Shipping Dimensions 20" x 27" x 19 Wall mount 2 years Features & Options Forced Air Cooling Standard - three-stage charging Standard - bui		d cut in (all models)			
Total Voltage Harmonic Distortion < 5% Waveform Sine wave, 34 Load Sensing (Inverter Mode) Adjustable, 0 to 1 pf Power Factor (allowed) -1 to 1 pf General Specifications Specified Temperature Range 32 °F to 77 °F Enclosure Type Indoor, ventila Unit Weight 105 lb (48 kg) Shipping Weight 111 lb (50 kg) Inverter Dimensions (H x W x D) 15" x 22.5" x Shipping Dimensions 20" x 27" x 15 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - bui	50 amp		60 amps DC		
Waveform Sine wave, 34 Load Sensing (Inverter Mode) Adjustable, 0 to 1 pf Power Factor (allowed) -1 to 1 pf General Specifications Specified Temperature Range 32 °F to 77 °F Enclosure Type Indoor, ventila Unit Weight 105 lb (48 kg) Shipping Weight 111 lb (50 kg) Inverter Dimensions (H x W x D) 15" x 22.5" x Shipping Dimensions 20" x 27" x 15 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - bui	< 5%	33.00	< 5%		
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Power Factor (allowed) General Specifications Specified Temperature Range Enclosure Type Indoor, ventila Unit Weight Shipping Weight Inverter Dimensions (H x W x D) Shipping Dimensions Wall mount Warranty Part Numbers Was Options Forced Air Cooling Three-stage charging Standard - bui	Adjustable, 0 to over 200 watts (48 watts default)				
General Specifications Specified Temperature Range 32 °F to 77 °F Enclosure Type Indoor, ventila Unit Weight 105 lb (48 kg) Shipping Weight 111 lb (50 kg) Inverter Dimensions (H x W x D) 15" x 22.5" x Shipping Dimensions 20" x 27" x 19 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - thre Control Panel Standard - bui	-1 to 1		-1 to 1 pf		
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Shipping Dimensions 20" x 27" x 19 Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - thre Control Panel Standard - bui			143 lb (65 kg)		
Mounting Wall mount Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - thre Control Panel Standard - bui	15" x 22.5" x 9" (38 cm x 57 cm x 23 cm)				
Warranty 2 years Part Numbers SW3024E, SW Features & Options Forced Air Cooling Standard - var Three-stage charging Standard - three-stage charging Standard - bui	5 (52 cm x 69 cm x	40 cm)			
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Forced Air Cooling Standard - var Three-stage charging Standard - three-stage Control Panel Standard - bui	3048E, SW4548E				
Three-stage charging Standard - three-stage charging Standard - three-stage charging Standard - but					
Control Panel Standard - bui	Standard - variable speed brushless DC fans				
	Standard - three-stage with equalization (bulk, absorption, and float)				
- · - · · - · · · · · · · · · · · · · ·	Standard - built-in, two line, backlit, alphanumeric LCD with 8 LED status indicators				
Auto Generator Control System Standard - aut	Standard - automatic generator control system for two and three wire start generators				
Auxiliary Relays Standard - thre	Standard - three user adjustable voltage controlled signal relays for control of loads or charging sources				
Battery Temperature Sensor BTS - standard	BTS - standard remote battery temperature sensor for increased battery performance				
Remote Control SWRC - option	SWRC - optional remote control and status indicator				
Stacking Interface SWI/PAR/E - o	iai remote control di	g two identical SW	units for twice the power of	output at 230 VAC/50 Hz	
Conduit Box SWCB - option		SWCB - optional side mount conduit box for code-compliant DC wiring connections			