

SW Inverter/Charger

Advanced Sine Wave Power Conversion Center - J, A, K & W Models



Applications

- ▶ Off Grid: Widely used throughout the world as a primary source of AC electricity, the SW offers sine wave, utility grade output power, high capacity battery charger, high surge current ability (inrush current), and easy installation.
- ▶ Backup Power: When the utility fails, the SW Series instantly supplies AC power to critical loads. When utility power returns, it can automatically recharge your batteries in preparation for the next power interruption.

Features

- ▶ Utility grade, sine wave power.
- ▶ Durable construction for long life under extreme environmental conditions.
- ▶ Backed by a two year warranty.
- ▶ 3000, 4000, or 4500 watt continuous output models.
- ▶ Three-stage battery charging and battery equalization (bulk, absorption, and float) 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

- ▶ J & K models can be stacked in series for 105/210 VAC operation (optional equipment is required).
- ▶ Parallel stacking capability for greater output at the same voltage (optional equipment is required).

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Electrical Specifications

Models	SW3024J	SW4048J	SW4548A	SW4024K	SW4048K	SW4024W
AC Input Voltage	105 VAC	105 VAC	240 VAC	105 VAC	105 VAC	220 VAC
AC Input Voltage Range	70 - 129 VAC	70 - 129 VAC	170 - 298 VAC	70 - 129 VAC	70 - 129 VAC	160 - 288 VAC
AC Input Current	60 amps AC pass thru 30 amps AC charging	60 amps AC pass thru 30 amps AC charging	30 amps AC pass thru 15 amps AC charging	60 amps AC pass thru 30 amps AC charging	60 amps AC pass thru 30 amps AC charging	30 amps AC pass thru 15 amps AC charging
Continuous Power (@ 25 °C)	3000 VA	4000 VA	4500 VA	4000 VA	4000 VA	4000 VA
Efficiency (Peak)	94%	95%	96%	94%	95%	94%
Output Voltage (RMS)	105 VAC	105 VAC	240 VAC	105 VAC	105 VAC	220 VAC
Output Voltage Regulation	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
Waveform	Sine wave, 34 to 52 steps per cycle					
Frequency (Nominal)						
± 0.04% Crystal Controlled	50 Hz	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz
Continuous Output (@ 25 °C)	78 amps AC	78 amps AC	34 amps AC	78 amps AC	78 amps AC	38 amps AC
Total Voltage						
Harmonic Distortion	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
Automatic Transfer Relay	60 amps	60 amps	30 amps	60 amps	60 amps	30 amps
DC Input Voltage (Nominal)	24 VDC	48 VDC	48 VDC	24 VDC	48 VDC	24 VDC
DC Input Voltage Range	22-33 VDC	44-66 VDC	44-66 VDC	22-33 VDC	44-66 VDC	22-33 VDC
DC Current at Rated Power	160 amps DC	107 amps DC	120 amps DC	214 amps DC	107 amps DC	214 amps DC
Short Circuit Current	180 amps DC	160 amps DC	180 amps DC	360 amps DC	180 amps DC	360 amps DC
Idle Consumption						
Typ at Full Voltage	< 10 watts	< 16 watts	< 20 watts	< 16 watts	< 16 watts	< 16 watts
Search Mode Consumption	< 1 watt	< 1 watt	< 1 watt	< 1 watt	< 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	60 amps DC	120 amps DC	60 amps DC	120 amps DC
Load Sensing (Inverter Mode)	Adjustable, 0 to over 200 watts (48 watts default)					

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)	105 lb (48 kg)	105 lb (48 kg)	105 lb (48 kg)
Shipping	111 lb (50 kg)	111 lb (50 kg)	143 lb (65 kg)	111 lb (50 kg)	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, SW4548A, SW4024K, SW4048K, 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