

SW Series

Advanced Sine Wave Power Conversion Center

120 VAC / 60 Hz 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.
- ▶ **Grid Tie:** Using the Xantrex Grid Tie Interface (GTI), the SW converts energy from multiple renewable energy sources, such as solar, wind, and microhydro, into AC power, selling power you don't use back to the utility. Software\hardware revision 4.2 or higher is required to connect the SW4024, SW4048, or SW5548 to the GTI.
- ▶ **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 with an optional three year, extended warranty available.
- ▶ 4000 or 5500 watt continuous output models.
- ▶ Three-stage battery charging (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

- ▶ Series stacking capability for 120/240 VAC operation (optional equipment is required).
- ▶ Parallel stacking capability for greater output 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 and only available on 48 volt models). Three phase configurations are not recommended for utility interactive operation.



Electrical Specifications	SW4024	SW4048	SW5548		SW4024	SW4048	SW5548
AC Input Voltage	120 VAC	120 VAC	120 VAC	Automatic			
AC Input Voltage Range	80-149 VAC	80-149 VAC	80-149 VAC	Transfer Relay	60 amps	60 amps	60 amps
AC Input Current	60 amps AC	60 amps AC	60 amps AC	DC Input Voltage			
	pass through	pass through	pass through	(Nominal)	24 VDC	48 VDC	48 VDC
	30 amps AC charging	30 amps AC charging	35 amps AC charging	DC Input Voltage Range	22-33 VDC	44-66 VDC	44-66 VDC
Continuous Power (@ 25 °C)	4000 VA	4000 VA	5500 VA	DC Current at			
Efficiency (Peak)	94%	95%	96%	Rated Power	200 amps DC	100 amps DC	140 amps DC
Output Voltage (RMS)	120 VAC	120 VAC	120 VAC	Short Circuit			
Output Voltage Regulation	± 3%	± 3%	± 3%	Current	800 amps DC	400 amps DC	400 amps DC
Frequency (Nominal ± 0.04% Crystal Controlled)	60 Hz	60 Hz	60 Hz	Idle Consumption			
Continuous Output (@ 25 °C)	33 amps AC	33 amps AC	46 amps AC	(Typical at Full Voltage)	< 16 watts	< 16 watts	< 20 watts
Surge Capability				Search Mode			
5 Sec Rating (Resistive)	8000 watts	8800 watts	9500 watts	Consumption	< 1 watt	< 1 watt	< 1 watt
1 mSec	110 amps AC	110 amps AC	110 amps AC	Low Battery			
100 mSec	78 amps AC	78 amps AC	78 amps AC	Protection (Enabled)	Adjustable low battery cut out and cut in - variable time		
Total Harmonic Distortion	< 5%	< 5%	< 5%	Max. Continuous			
				Charge Rate	110 amps DC	60 amps DC	70 amps DC

Mechanical Specifications

Specified Temperature Range		Inverter Dimensions	15" H x 22.5" W x 9" D (38 cm H x 57 cm W x 23 cm D)
Specified (will meet specified tolerances)	32 °F to 77 °F (0 °C to 25 °C)	Shipping Dimensions	20" H x 27" W x 15" D (52 cm H x 69 cm W x 40 cm D)
Allowed (may not meet specified tolerances)	-40 °F to 140 °F (-40 °C to 60 °C)	Mounting	Wall mount
Non-Operating	-67 °F to 284 °F (-55 °C to 140 °C)	Altitude	
Enclosure Type	Indoor, ventilated, steel chassis with powdercoat finish	Operating	15,000' (4,572 m)
Unit Weight	105 lb (48 kg) 105 lb (48 kg) 136 lb (63 kg)	Non-Operating	50,000' (15,240 m)
Shipping	111 lb (50 kg) 111 lb (50 kg) 143 lb (65 kg)		

Features and Options

Forced Air Cooling	Standard variable speed brushless DC fans
Three-stage charging	Standard three-stage (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 - optional for series stacking of two identical SW units for 120/240 VAC output / SWI/PAR - optional for paralleling two identical SW units for twice the power output at 120 VAC/60 Hz
Conduit Box	SWCB - optional side mount conduit box for code-compliant DC wiring connections
Grid Tie Interface	GTI - optional grid tie interface - required for utility interactive operation

Common Specifications

Waveform	Sine wave, 34 to 52 steps per cycle	Load Sensing (Inverter Mode)	Adjustable 0 to over 200 watts (48 watts default)
Listings	CSA Listed to UL 1741		