

SW Inverter/Chargers

Advanced Sine Wave Power - 120 VAC/60 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).

Xantrex Technology Inc.

Headquarters
8999 Nelson Way
Burnaby, British Columbia
Canada V5A 4B5
800 670 0707 Toll Free
604 420 1591 Fax

5916 195th Street NE
Arlington, Washington
USA 98223
360 435 8826 Telephone
360 435 2229 Fax

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Electrical Specifications

Models	SW4024	SW4048	SW5548	
AC Input Voltage	120 VAC	120 VAC	120 VAC	
AC Input Voltage Range	80-149 VAC	80-149 VAC	80-149 VAC	
AC Input Current	60 amps AC pass through	60 amps AC pass through	60 amps AC pass through	
	30 amps AC charging	30 amps AC charging	35 amps AC charging	
Continuous Power (@ 25 °C)	4000 VA	4000 VA	5500 VA	
Efficiency (Peak)	94%	95%	96%	
Output Voltage (RMS)	120 VAC	120 VAC	120 VAC	
Output Voltage Regulation	± 3%	± 3%	± 3%	
Frequency	60 Hz	60 Hz	60 Hz	Nominal ± 0.04% Crystal Controlled
Continuous Output (@ 25 °C)	33 amps AC	33 amps AC	46 amps AC	
100 mSec Surge Capability	78 amps AC	78 amps AC	78 amps AC	
Automatic Transfer Relay	60 amps	60 amps	60 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	200 amps DC	100 amps DC	140 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	110 amps DC	60 amps DC	70 amps DC	
Total 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	111 lb (50 kg)	111 lb (50 kg)	143 lb (65 kg)
Inverter Dimensions	15" H x 22.5" W x 9" D (38 cm H x 57 cm W x 23 cm D)		
Shipping Dimensions	20" H x 27" W x 15" D (52 cm H x 69 cm W x 40 cm D)		
Mounting	Wall mount		
Warranty	2 years		
Part Numbers	SW4024, SW4048, SW5548		

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 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 with standard 25' cable, optional 50' cable is available
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

Regulatory Approvals

CSA Listed to UL 1741