

PS Inverter/Charger

Economical Sine Wave Power Conversion Center - 230 VAC/50 Hz



The PS Inverter/Charger delivers dependable sine wave power at a mid-range price. The 2.5 kW inverter is available in 12 and 24-volt models. It includes a fully automatic three-stage battery charger. This cost-effective inverter/charger also allows you to choose optional features that suit your needs and budget. If you want your generator to start automatically, add the optional GSM and SWRC.

Features

- ▶ 2500 watts of continuous power.
- ▶ Utility grade, sine wave power.
- ▶ Quiet, high-efficiency operation.
- ▶ Three-stage battery charging system (bulk, absorption, and float) with automatic temperature compensation ensures your batteries are properly maintained.
- ▶ Surge capacity of 2.5 times peak power rating starts even the most demanding loads.
- ▶ Low power consumption (preserves battery capacity).
- ▶ Low battery, overload, and overcharge protection circuitry.
- ▶ Seamless transfer switching (grid / generator to battery and battery to grid / generator).

Options

- ▶ Optional SWRC remote allows expanded programming capacity.
- ▶ Optional Generator Start Module (GSM) supports automatic generator start and stop.
- ▶ Stackable design for 120/240 VAC, three-wire, 60 Hz power applications.

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Electrical Specifications

Models	PS2212E	PS2524E	
AC Input Voltage	230 VAC	230 VAC	
AC Input Voltage Range (default)	206 - 254 VAC	206 - 254 VAC	
AC Input Current (via selector switch)	15 or 30 amps	15 or 30 amps	Required for full pass through and full charging
Continuous Power (@ 25 °C)	2200 VA	2500 VA	
Efficiency (Peak)	90%	92%	
Output Voltage (RMS)	230 VAC	230 VAC	
Output Voltage Regulation (Typical)	± 3%	± 3%	
Frequency (Nominal)	50 Hz	50 Hz	± 0.04% Crystal Controlled
Continuous Output (@ 25 °C)	9.5 amps AC	11 amps AC	
Surge Capability			
5 Sec Rating (Resistive)	4000 watts	6000 watts	
1 mSec	35 amps AC	58 amps AC	
100 mSec	17 amps AC	38 amps AC	
DC Input Voltage (Nominal)	12 VDC	24 VDC	
DC Input Voltage Range	11.8 - 16.5 VDC	22 - 33 VDC	
DC Current at Rated Power	240 amps DC	140 amps DC	
Idle Consumption (Typical at Full Voltage)	< 20 watts	< 20 watts	
Search Mode Consumption	< 0.5 watt	< 0.5 watt	
Maximum Charge Rate (Adjustable)	100 amps DC	65 amps DC	
Total Harmonic Distortion	3 - 5%	3 - 5%	Stand alone operation
Waveform	Sine wave, 34 to 52 steps per cycle		
Load Sensing (Inverter Mode)	Adjustable 0 to 240 watts (48 watts default)		
Power Factor (Allowed)	-1 to 1 pf	-1 to 1 pf	

General Specifications

Specified Temperature Range	32 °F to 104 °F (0 °C to 40 °C)
Enclosure Type	Fully screened, indoor, ventilated, steel chassis with powdercoat finish
Unit Weight	80 lb (36.4 kg)
Shipping	88 lb (40 kg)
Inverter Dimensions (H x W x D)	15.5" x 22.5" x 6.5" (38.7 cm x 57.1 x 16.6 cm)
Shipping Dimensions (H x W x D)	20" x 26" x 12.75" (51 cm x 66 cm x 32.3 cm)
Mounting	Vertical wall mount or shelf mount
Warranty	2 years
Part Numbers	PS2212E, PS2524E - Inverters

Features & Options

Forced Air Cooling	Standard variable speed brushless DC fans
Three-stage charging	Standard three-stage (bulk, absorption, and float)
Communications Adaptor	SWCA - optional adaptor allows PC or modem connection
Battery Temperature Sensor	BTS - standard remote battery temperature sensor for increased battery performance
Remote Control	SWRC - optional remote control and status indicator or RC8 - optional on/off remote control with status LED indicator
Stacking Interface	SWI - optional for series stacking of two identical PS units for 120/240 VAC output - not available on E models
Paralleling Kit	SWI/PAR or SWI/PAR/E - optional for paralleling two identical PS units for twice the power output
Conduit Box	PSCB - optional side mount conduit box for code-compliant DC wiring connections
Generator Start	GSM - optional Generator Start Module allows auto generator start
Auxiliary Relay	ALM - optional Auxiliary Load Module provides voltage controlled relays

Regulatory Approvals

UL Listed to UL 1741 and cUL 107.1-95 and CE compliant