



SPI Series

Sine Wave Power Inverter



SPI Series Sine wave Power Inverters employ the latest state of the art High Frequency Switch Mode Technology. They are very light in weight and compact in size in addition to offering high conversion efficiency and very low no load loss. These units come with in-built protection against low and high input voltage, overload and short-circuit. An unique circuitry of these Inverters ensure that the Inverter draws current from the DC source only when there is some minimum load, to make it ideal for Solar PV applications.

These Units can be offered in standard 19" rack enclosures as well as table top/wall mount type enclosure to suit a wide range of application such as Telecom, Signal, Emergency lighting, medical instrument, cash registers, light duty motors, power tools, RV, renewable energy like Solar PV, small wind generators and many more. The SPI series is available from 300W to 2000W suitable for the input DC working voltage of 12V, 24V, 48V, 72V and 110V. The optional features include in-built switch mode battery charger with an auto-change over relay.

Features:

- High Frequency Switch Mode PWM technique
- True Sine wave output
- High Conversion Efficiency, Very low, negligible No load loss
- Sleep Mode Pulse circuitry to ensure low no load drain
- Conforms to EN 55022
- Very low audible noise

General Specifications

Model	SPI-300	SPI-600	SPI-1000	SPI-1500	SPI-2000	
Output	Continuous	300W	600W	1000W	1500W	2000W
	Surge	500W	900W	1500W	2250W	3000W
	Voltage	115V AC or 230V AC				
	Voltage Stability	±3% for I/P DC variation and output Load variations				
	Frequency	50Hz or 60Hz or 400Hz				
	Freq. Stability	±0.5%				
	Wave form	Pure Sine wave				
Input	Voltage	12V DC or 24VDC or 48V DC				
	Low Battery	a) 12V DC Shut down: 10.0V DC / Alarm: 10.5V DC				
		b) 24 VDC Shut down: 20.0V DC / Alarm: 21.0V DC				
		c) 48V DC Shut down: 40.0V DC / Alarm: 42.0V DC				
	High Battery	a) 12V DC Shut down & alarm: 16.0V DC				
		b) 24V DC Shut down & alarm: 32.0V DC				
		c) 48V DC Shut down & alarm: 64.0V DC				
No Load Loss	a) Normal Mode	<7W	<15W	<15W	<20W	<20W
	b) Sleep Mode*	<0.5W	<0.9W	<0.9W	<1.5W	<1.5W
Efficiency	a) 12V DC Over 85%					
	b) 24V DC Over 87%					
	c) 48V DC Over 88%					
Protection	Over Temperature Trip with fault indication					
	O/P Short-circuit Trip with fault indication					
	O/P Overload Trip with fault indication					
	Battery Low/High Trip with fault indication					
Dimension	Height	51 mm	84 mm	84 mm	90 mm	90 mm
	Width	165 mm	225 mm	225 mm	320 mm	320 mm
	Depth	207 mm	416 mm	416 mm	416 mm	416 mm
Weight		1.4 Kg	4.2 Kg	5.2 Kg	8 Kg	9 Kg

Specification subject to change without notice.



POWER CONTROLS & CONVERSION DIVISION

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