

SPI-Series User Manual

Please read user manual before use.

FEATURES:

1. Pure sine wave output.
2. Output over load protection.
3. Output short circuit protection.
4. Super start capability
5. Low battery alarm and protection.
6. High battery protection.
7. High temperature alarm and protection.
8. Temperature control fan

SPECIFICATION:

Model		SPI-12060 SPI-24060	SPI-12120 SPI-24120	SPI-12150 SPI-24150
Output	Continuous output	600W	1200W	1500W
	Start output	1200W	2400W	3000W
	Voltage	Vrms +/- 5%		
	Frequency	50HZ or 60HZ		
	Waveform	Pure sine wave		
Input	Low battery	12V: 10.5 ±0.3V / 24V: 21 ±0.4V alarm 12V: 10 ±0.3V / 24V: 20 ±0.4V shutdown		
	High battery	12V: over 17V alarm / 24 V: over 34V alarm		
	Efficiency	>83%		
Protection	High temperature	>60℃ alarm; >65℃ shutdown		
	Short circuit	Yes		
	Overload	yes		
	Cooling fan	>45℃ cooling fan turns on		
Indicator	Audio	Alarm when batt. low, over temp. & overload		
	Visual	Green: Normal Red: Fault (Overload, Over Temp.)		
Mechanical	Dims. W*H*D (mm)	350x171x73	395x213x76	459x213x76
	Weight	2.9KGS	4.5KGS	5.2KGS

TROUBLESHOOTING:

If the inverter does not operate correctly, please attempt to solve the problem using the methods below.

Poor Contact

*Clean contact parts thoroughly.

Output receptacle has no power

*Check car fuses, replace damaged fuses. (600W/1200W is located inside the PCB. Replace fuse with a fuse of equivalent value)

*Check receptacle wiring, Repair if necessary.

*Overload caused AC output power not appear

*Reduce the wattage of your load to lower than inverter's continuous power

Thermal caused AC output power not appear

*Under heavy loads for extended periods of time. The inverter output will shutdown to prevent damage to excess heat. If this happens, please proceed as below,

- 1) Switch off the power switch of this inverter.
- 2) Decrease load of this machine. i.e. disconnect some of the appliances or wait until this inverter become cool.
- 3) Switch on the power switch of this inverter.

Low battery shutdown

*Recharge your battery and resume operation.

CAUTION:

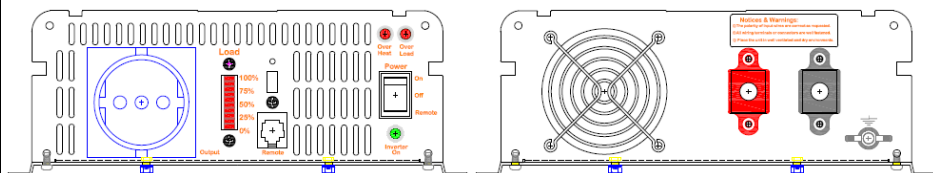
* **Keep this unit away from wet area, direct sunlight and bad ventilation environments**

* **If you are operating the Inverter in a moving vehicle, we recommended that you secure the Inverter to prevent it from shifting around while vehicle is moving.**

* **Connect to the loads under the Inverter's specifications only.**

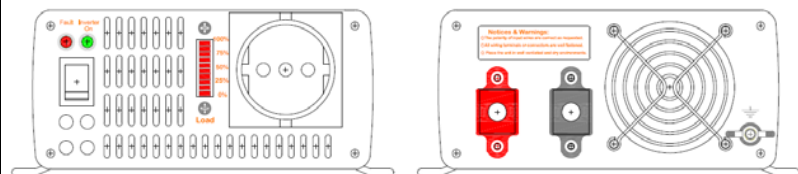
* **Risk of electric shock, don't remove the top and side covers.**

1200W/1500W Front & Rear Panel Layout

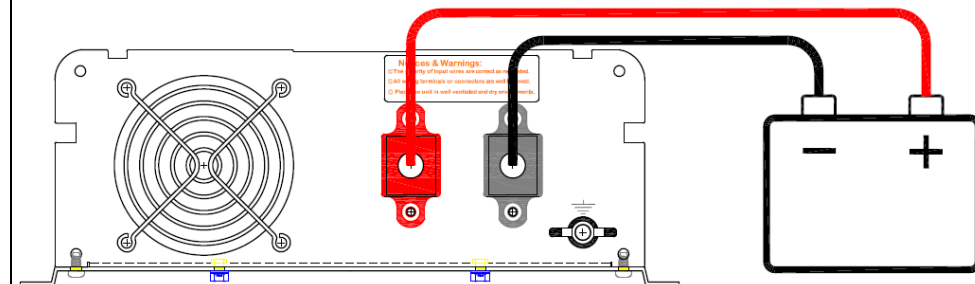


Option for Load Level Display & Remote Control

600W Front & Rear Panel Layout

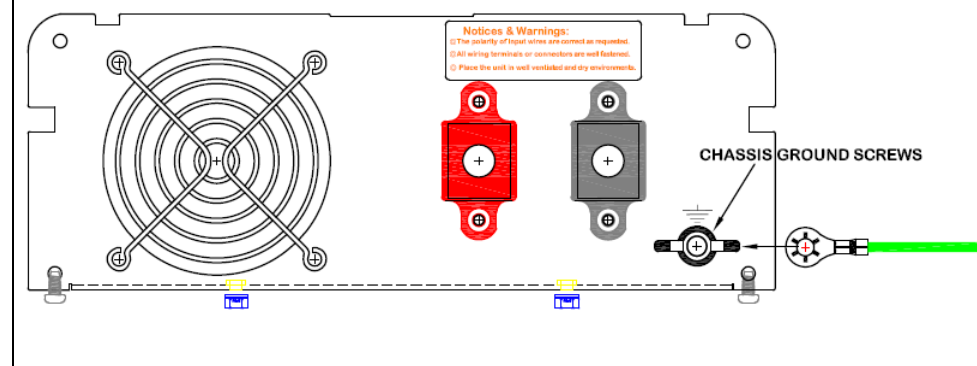


Caution: Do not reverse input. Use Red battery cord to connect Battery (+) to Red Terminal (+). And then, use Black battery cord to connect Battery (-) to Black Terminal (-).



Chassis Earth:

The chassis earth lug should be connected to an earth point. Which will vary depending on where the inverter is installed. In a vehicle, connect the chassis lug to the chassis of vehicle. In a boat, connect to the boat's ground system. In a fixed location, connect to earth.



When connect to any appliance. Be sure to turn on inverter first and then turn on the power switch of the appliance.

