Split Phase Pure Sine Wave Inverter

SPT Series (2.5KW-12KW)

Features

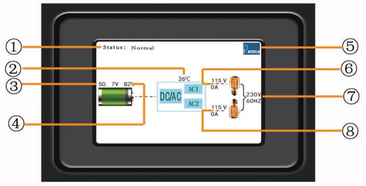
- Rated power : 2500W-12000W
- Pure sine wave solar inverter
- 120V/240V AC split phase
- LCD Display for tracking battery volt and capacity ,both amper of 120VAC mode and 240VAC mode
- Multi- outlets and Hardwire terminal
- Spark-proof design
- Built-in soft starter
- 9 Kinds of prtections
- 50hz or 60hz (optional)
- Compatible with various batteries on the market

Introduction

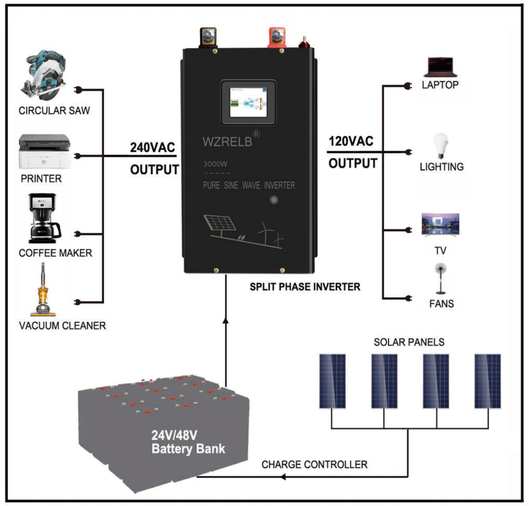
The SPT series is a split-phase inverter with both 120v and 240v outputs, up to 91.6% efficiency ,3000w for example,with maximum 12.5A current output in the 240V circuit, perfectly adapted to high-power 240VAC appliances, dual 120V 12.5Amp output circuits : AC1 and AC2， can support the 1500W output at the same time Support in portable size. Its comprehensive LCD display offers full system condition monitoring in real time, such as battery volt and capacity ,Output amps based on different applications.

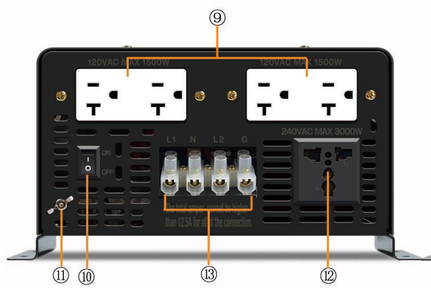
Function Description

1.Working ststus:Normal or Fault
2.Working temperature
3.Battery Voltage
4.Battery Capacity
5.Support Contacts
6.AC1 Volt and Amp for 120VAC
7.Output volt and frequency for 240VAC
8. AC2 Volt and Amp for 120VAC
9.15A standard US sockets for 120VAC
10.ON/OFF switch
11.Grounding screw
12. Universal socket for 240VAC
13. Hardwire terminal for AC output （4 wires:L1 N L2 G ）
14Hardwire terminal for AC output （3 wires:L1 N L2 ）
15.Spark-Proof
16.Battery input positive
17.Battery input negative
18.Cooling fans

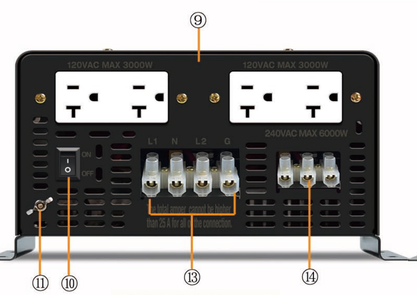


Solar system connection

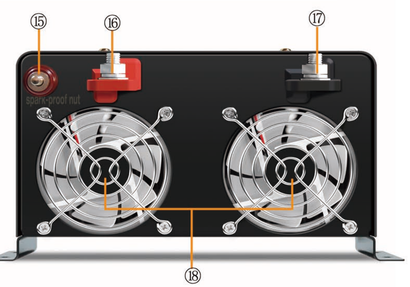




(2.5KW-4KW Model)



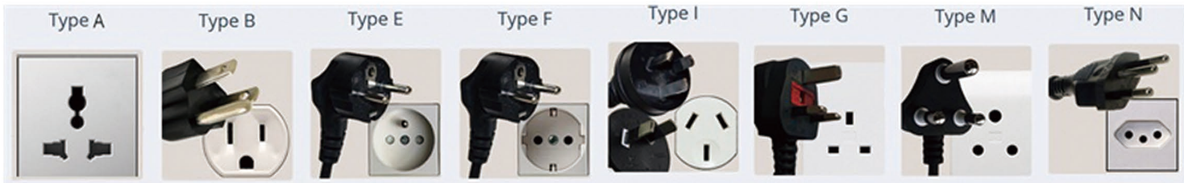
(5KW-12KW Model)



Input Panel

Specification Data

Model		SPT-2500	SPT-3000	SPT-3500	SPT-4000	SPT-5000	SPT-6000	SPT-7000	SPT-9000	SPT-10000	SPT-12000
Input	DC Voltage	24V or 36V or 48V(Optional)									
	Voltage Range	21-30VDC or 30~45VDC or 42-60VDC									
	No Load Current Draw	<30W		<40W				<45W		<50W	
	Efficiency	> 90%									
	DC Connector	Cables									
Output	AC Voltage	120V	240V	120V	240V	120V	240V	120V	240V	120V	240V
	Max Power	1250W	2500W	1500W	3000W	1750W	3500W	2000W	4000W	2500W	5000W
	Frequency	50Hz or 60Hz(Optional)									
	Waveform	Pure Sine Wave									
	AC Regulation	3%									
Protection	DC input voltage range	20~30VDC(24V)/30~45VDC(36V)/40~60VDC(48V)									
	Low Voltage Shut Down	19.5VDC± 1V (24V) / 29.5VDC± 0.5V (36V) / 42VDC± 1V (48V)									
	Over Load	Shut Off Output									
	Over Voltage Shut Down	30VDC (24V) / 45VDC (36V) / 60VDC (48V)									
	Over Thermal	Shut Off Output Automatically									
	Fuses	Short Circuit									
Environment	Working Temperature	Between - 10C and +50C									
	Working Humidity	20% ~ 91% RH non- condensing									
	Storage Temperature	Between - 3 0 C and + 7 0 C									
Others	Start	Soft Start									
	Cooling Ways	Cooling Fan									
	Total Harmonic Distortion	THD < 5%									
Pack	Machine size (inch)	14 .9 * 8.4 * 5. 3inch				21 * 9.8 * 5. 3inch			22.5 * 12 * 6.2inch		
	Net Weight(kg)	8.8KG				10.8KG			13KG		
	Packing Type	Carton Packing									

120V	240V	120V	240V	120V	240V	120V	240V
3500W	6000W	7000W	9000W	10000W	12000W		

Output Socket