

SPT Series Quick Product Introduction

Pure Sine Wave Inverter with Transfer Switch



Scan QR Code to view
the User Manual

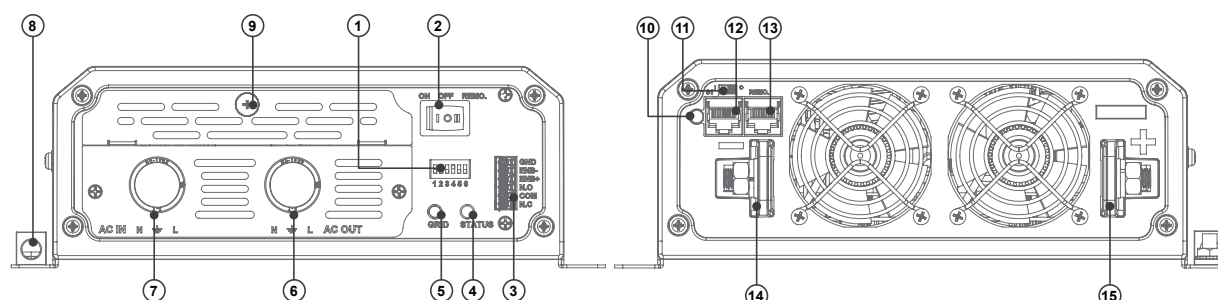


IMPORTANT: Please must read the Installation and Maintenance Instructions Before Connecting to the Supply.
Please download and read the user manual from COTEK website or QR code before starting to use the SPT Inverter.

	SPT-1200	SPT-2000	SPT-3000
Output			
Rated Power	1200VA	2000VA	3000VA
Overload (Max. 1 min.)	1201 ~ 1440VA	2001 ~ 2400VA	3001 ~ 3600VA
Peak Power (Max. 3 sec.)	1441 ~ 2400VA	2401 ~ 4000VA	3601 ~ 6000VA
Peak Power (Max. 2 sec.)	> 2400VA	> 4000VA	> 6000VA
Frequency	50/60 Hz $\pm$ 0.3 Hz (User-selectable)		
Output Voltage	100 / 110 / 115 / 120 Vac $\pm$ 3% (Non UL version), Only 120 Vac $\pm$ 3% (UL version)		
Max. Efficiency	91%@12.5V, 92%@25.0V		
Output Waveform	Pure Sine Wave		
Total Harmonic Distortion (THD)	< 3% (Bat. 12.5V / 25.0V @120Vac, resistive load)		
AC input (Bypass)			
Nominal Voltage / Frequency	120 VAC, 60Hz (User-selectable)		
Input Voltage Range	70-150Vac		
Input Frequency Range	50Hz:47 ~ 53 Hz / 60Hz:57 ~ 63 Hz		
AC Input current	24A		
Transfer switch			
Transfer relay rating	40A continuous		
Transfer Time	$\leq$ 20mS		
Protection			
DC Input Protection	OCP(fuse), Reverse Polarity(mosfet), OVP, UVP		
AC Output Protection	Short-Circuit, Overload		
AC Input Protection	30A Breaker (Automatically Reset)		
Temperature protection	Enable by heatsink temperature > 95°C		
Signal and Control			
Remote Control Panel (Optional)	CR-22 / CR-8		
Communication port	RJ45 x 2		
Dry Terminal	ENB+, ENB-, GND, COM, N/C, N/O		
Operating Temperature Range			
Full Load	-20°C ~ 40°C		
Power de-rating	41°C ~ 60°C		
Storage	-40°C ~ 70°C		
Operating Humidity Range	0-95% RH, non-condensing		
Cooling	Temperature & Load Controlled Cooling Fan		
Mechanical Specification			
Dimension W x H x D (mm)	227 x 86 x 346	253 x 86 x 376	290 x 102 x 419
Net Weight (kg)	3.4	4.4	6.5
Safety and EMS			
Safety Standards	Certified UL458		
EMC Standards	Certified FCC Class B	Certified FCC Class A	Certified FCC Class A

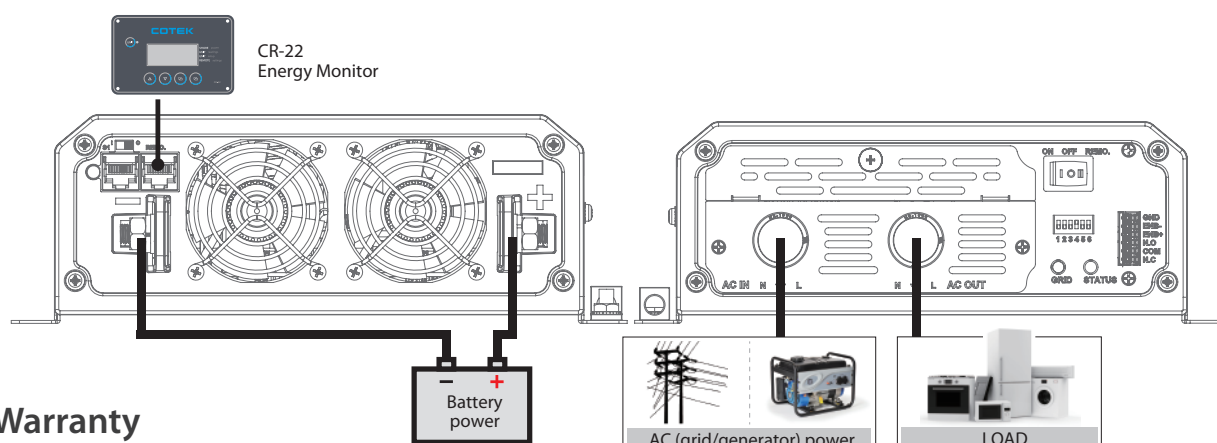
Input	SPT Series -112	SPT Series -124
Rated input voltage	12.5 VDC	25.0 VDC
DC input operation range	10.0 ~ 16.5V ± 0.3 VDC	20.0 ~ 33.0V ± 0.3 VDC
Input over voltage protection	>16.5V ± 0.3 VDC	>33.0V ± 0.3 VDC
Input over voltage warning	>15.5V ± 0.3 VDC	>31.0V ± 0.3 VDC
Input under voltage protection	<10.0V ± 0.3 VDC	<20.0V ± 0.3 VDC
Input under voltage warning	<11.0V ± 0.3 VDC	<22.0V ± 0.3 VDC
Input under voltage restart	> 12.5V ± 0.3 VDC	> 25.0V ± 0.3 VDC
Input over voltage restart	< 13.5V ± 0.3 VDC	< 27.0V ± 0.3 VDC
Input Current (No load)	SPT-1200<1.8A / SPT-2000<2.0A / SPT-3000<2.8A (@12.5VDC)	SPT-1200<0.9A / SPT-2000<1.0A / SPT-3000<1.4A (@25VDC)
Input Current (Max)	SPT-1200:133A / SPT-2000:220A / SPT-3000:330A (@10.5VDC)	SPT-1200:65A / SPT-2000:107A / SPT-3000:161A (@21.0VDC)
Power Saving mode	<0.1A @ 12.5VDC	<0.1A @ 25VDC
Dark current @ Off mode	<100uA	

Product Appearance



- | | | |
|----------------------------|-------------------------------------|---------------------------|
| ① Function Switch (6-Port) | ⑥ AC-OUT Terminal | ⑪ RS485 Terminator Switch |
| ② Main Switch | ⑦ AC-IN Terminal | ⑫ Remote Port (RJ45) |
| ③ Remote Black Terminal | ⑧ Ground Lug | ⑬ Remote Port (RJ45) |
| ④ The Unit Status | ⑨ Panel Screw | ⑭ Batt- input Terminal |
| ⑤ AC power Only (Status) | ⑩ Battery power in reverse (Status) | ⑮ Batt+ input Terminal |

Product Installation



Warranty



Warning!

Do not open or disassemble the Inverter. Attempting to do so may cause risk of electrical shock or fire.

We guarantee this product against defects in materials and workmanship for a period of 24 months from the date of purchase.

In case you need to repair or replace any defective power inverters, please contact COTEK local distributor.

This warranty will be considered void if the unit has been misused, altered, or accidentally damaged. COTEK is not liable for anything that occurs as a result of the user's fault.