TPS Series



The TPS Series is a pure sine wave power inverter. With advanced digital signal processing technology, the TPS Series has multiple functions such as power turbo mode, power saving mode, adjustable output voltage, fan speed control, etc. Besides, its outstanding protection included input DC polarity reversed protection, input DC over/under voltage protection, internal over temperature protection, overload protection and output short circuit protection. Furthermore, the TPS Series has RS232 communication port which allows you to monitor TPS Series status.

Features



Polarity reversed protection - no components be damaged



Output failure alarm
- signal from dry contact



Power saving mode
- power consumption < 1W



DSP control & high efficiency - efficiency up to 92%



Turbo mode

- 120% continuous output power



Dip switch for setting
- Output Vac & Hz adjustable



Pure sine wave output - same as the Grid waveform



Remote control available

- remote on / off



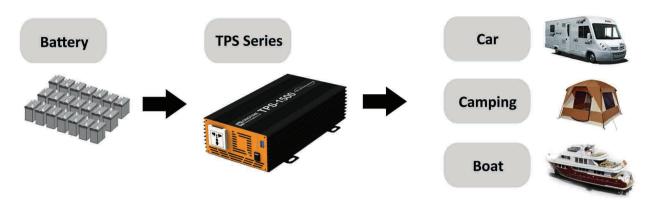
Intelligent fan speed control - depends on load / temperature



RS232 communication interface

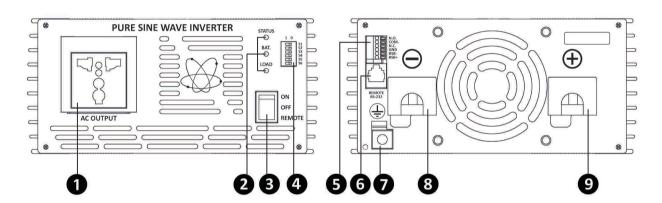
easy to monitor

Demonstration



^{*} Application to camping, truck, boat, emergency power, small tools

Front & Rear Panel



1 Output receptacle

- 4 Dip switch
- 7 Ground

2 LED indicators

- **5** Dry contact
- 8 Battery connection

- 3 ON / OFF / REMOTE switch
- 6 RS232 interface
- Battery + connection

Receptacle Option









NEMA Type

EU Type

UK Type

Australia Type

Specification

Capacity	Model	TPS70-12 TPS70-24	TPS100-12 TPS100-24	TPS150-12 TPS150-24	TPS200-12 TPS200-24	TPS300-12 TPS300-24
Continuous Surge	Capacity			- V		The same of the sa
Surge	Output Power					
Turbo Mode	Continuous	700W	1000W	1500W	2000W	3000W
Output Voltage 100VAC / 110VAC / 115VAC / 120VAC (Dip Switch Selectable) Output Frequency 50Hz / 60Hz (Dip Switch Selectable) Wave Form Pure Sine Wave THD <2.5%® Input Voltage Range 12VDC 10.5VDC ~ 16.5VDC 24VDC 92% 24VDC 93% No Load Power Consumption 12VDC 93% No Load Power Consumption 12VDC < 1.2A < 1.2A < 1.2A < 1.2A 24VDC < 0.6A	Surge	1400W	2000W	3000W	4000W	6000W
Output Voltage 200VAC / 220VAC / 230VAC / 240VAC (Dip Switch Selectable) Output Frequency 50Hz / 60Hz (Dip Switch Selectable) Wave Form Pure Sine Wave THD <2.5% 3	Turbo Mode	700 EDG7 45 85	I SERVE TE		ATTIVITY FOR THE STATE OF THE S	5000 C 1 C
## Sine Wave THD	Output Voltage					
THD	Output Frequency	50Hz / 60Hz (Dip Switch Selectable)				
Input Voltage Range 12VDC 24VDC 24VDC Max Efficiency 12VDC 24VDC 24VDC No Load Power Consumption 12VDC 24VDC 2520VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W*H*D/mm) 122*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*480 192*88.9*335 192*88.9*407 192*88.9*480 192*88.9*	Wave Form	Pure Sine Wave				
12VDC 24VDC 21.0VDC ~ 16.5VDC 21.0VDC ~ 33.0VDC	THD	<2.5% [®]				
Max Efficiency	Input Voltage Range					
Max Efficiency 12VDC 24VDC 93% No Load Power Consumption 12VDC < 1.2A < 1.2	12VDC	10.5VDC ~ 16.5VDC				
12VDC 24VDC 93%		21.0VDC~33.0VDC				
No Load Power Consumption 12VDC 21.2A 21.2A 21.2A 21.2A 21.2A 21.2A 24VDC 24VDC 24VDC 24VDC 24VDC 22.0VDC 24VDC 24VDC 24VDC 22.0VDC 22.0VDC 24VDC 24VDC 22.0VDC 22.0VDC 24VDC 22.0VDC 22.0VDC 24VDC 22.0VDC 22.0	1					
No Load Power Consumption 12VDC	ALLEGOR OF	121 - 122 - 1				
12VDC 24VDC 24VDC 24VDC 20.6A 20.6		93%				
24VDC C C C C C C C C C						
ECO Mode						
Low Battery Alarm 12VDC 24VDC High Battery Alarm 12VDC 24VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Storage Temperature Humidity Dimension (W*H*D/mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)						
11.0VDC 24VDC 11.0VDC 22.0VDC High Battery Alarm 12VDC 24VDC 24VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W*H*D/mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)		< 100	< 100	< 100	< 100	< 100
24VDC High Battery Alarm 12VDC 24VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W*H*D/mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)		11 0VDC				
High Battery Alarm 12VDC 24VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W*H*D/mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)						
12VDC 24VDC 16.0VDC 32.0VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment -20 ° C ~ 60 ° C Storage Temperature Humidity Storage Temperature Humidity 95%, non-condensing Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes	-0.00			22.000		
24VDC Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)		16.0VDC				
Protection DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature Environment Operating Temperature Storage Temperature Humidity Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option)						
Protection / Over Temperature Environment -20 ° C ~ 60 ° C Operating Temperature -30 ° C ~ 70 ° C Storage Temperature 95%, non-condensing Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes		DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload				
Operating Temperature -20 ° C ~ 60 ° C Storage Temperature -30 ° C ~ 70 ° C Humidity 95%, non-condensing Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes	Protection					
Storage Temperature	Environment					
Humidity 95%, non-condensing Dimension (W*H*D/mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes	Operating Temperature					
Dimension (W * H * D / mm) 192*88.9*237. 192*88.9*280 192*88.9*335 192*88.9*407 192*88.9*480 Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes	Storage Temperature	-30 ° C ~ 70 ° C				
Weight 2.6kgs 3.5kgs 4.5kgs 5.8kgs 6.5kgs Remote Control (Option) Yes	Humidity	95%, non-condensing				
Remote Control (Option) Yes	Dimension (W * H * D / mm)	192*88.9*237.	192*88.9*280	192*88.9*335	192*88.9*407	192*88.9*480
	Weight	2.6kgs	3.5kgs	4.5kgs	5.8kgs	6.5kgs
GFCI (Option) Yes	Remote Control (Option)			Yes		
	GFCI (Option)			Yes		

^{*} Product specification is subject to change without prior notice