

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



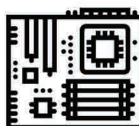
Polarity reversed protection
- no components be damaged



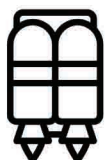
Output failure alarm
- signal from dry contact



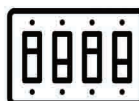
Power saving mode
- power consumption < 1W



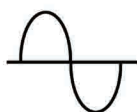
DSP control & high efficiency
- efficiency up to 92%



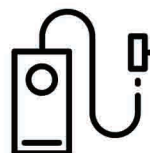
Turbo mode
- 120% continuous output power



Dip switch for setting
- Output Vac & Hz adjustable



Pure sine wave output
- same as the Grid waveform



Remote control available
- remote on / off

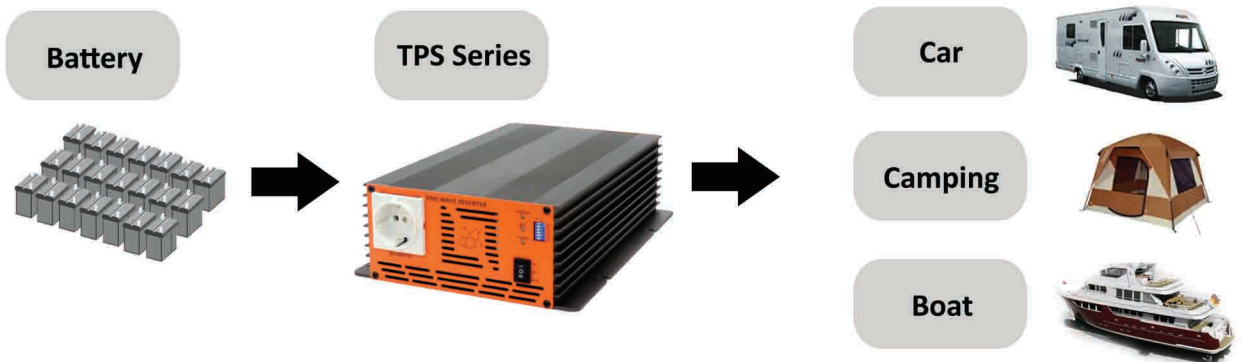


Intelligent fan speed control
- depends on load / temperature



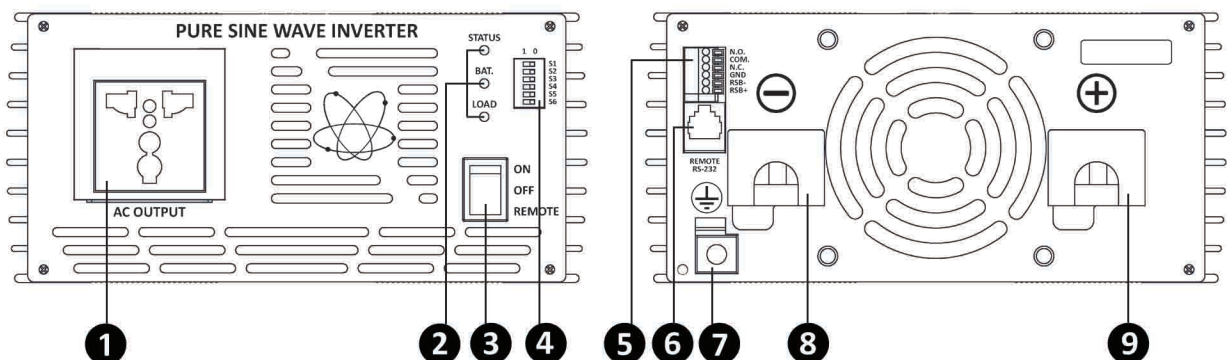
RS232 communication interface
- easy to monitor

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 | ⑨ Battery + connection |

Receptacle Option



NEMA Type



EU Type



UK Type



Australia Type

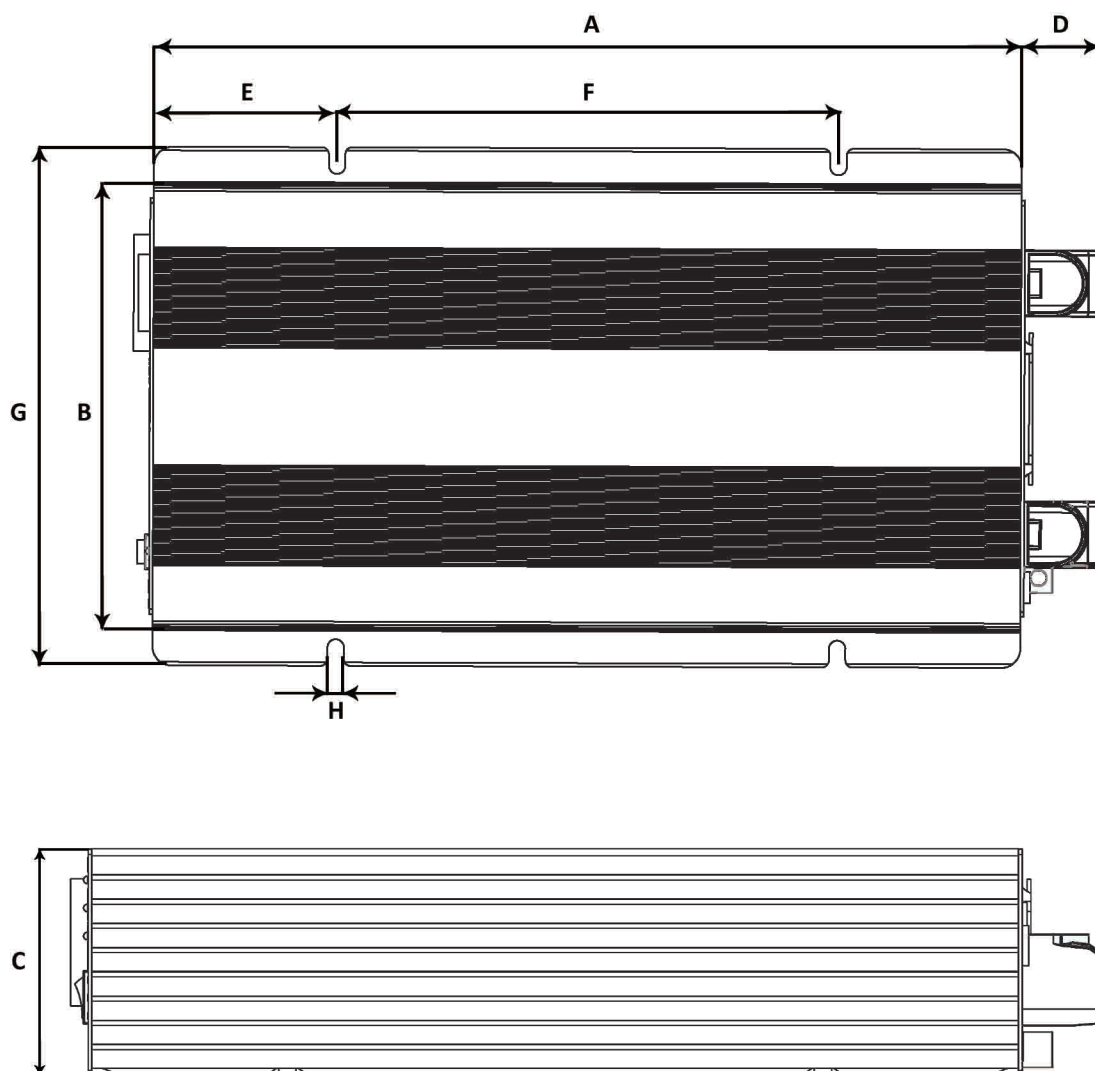
Specification

Model	TPS70-12 TPS70-24	TPS100-12 TPS100-24	TPS150-12 TPS150-24	TPS200-12 TPS200-24	TPS300-12 TPS300-24
Capacity	700W	1000W	1500W	2000W	3000W
Output Power					
Continuous	700W	1000W	1500W	2000W	3000W
Surge	1400W	2000W	3000W	4000W	6000W
Turbo Mode	840W	1200W	1800W	2400W	3600W
Output Voltage	100VAC / 110VAC / 115VAC / 120VAC (Dip Switch Selectable) 200VAC / 220VAC / 230VAC / 240VAC (Dip Switch Selectable)				
Output Frequency	50Hz / 60Hz (Dip Switch Selectable)				
Wave Form	Pure Sine Wave				
THD	<2.5% ^③				
Input Voltage Range	12VDC 10.5VDC ~ 16.5VDC 24VDC 21.0VDC ~ 33.0VDC				
Max Efficiency	12VDC 92% 24VDC 93%				
No Load Power Consumption					
12VDC	< 1.26A	< 1.36A	< 1.63A	< 1.94A	< 2.62A
24VDC	< 0.63A	< 0.68A	< 0.82A	< 0.97A	< 1.31A
ECO Mode	< 1W	< 1W	< 1W	< 1W	< 1W
Low Battery Alarm	12VDC 11.0VDC 24VDC 22.0VDC				
High Battery Alarm	12VDC 16.0VDC 24VDC 32.0VDC				
Protection	DC Input Polarity Reversed / DC Under Voltage / DC Over Voltage / Output Short Circuit / Overload / Over Temperature				
Environment					
Operating Temperature	-20 ° C ~ 60 ° C				
Storage Temperature	-30 ° C ~ 70 ° C				
Humidity	95%, non-condensing				
Dimension (W * H * D / mm)	222*88.9*240	222*88.9*280	222*88.9*340	222*88.9*405	222*88.9*490
Weight	2.5kgs	3.2kgs	3.9kgs	5.3kgs	6.4kgs
Remote Control (Option)	Yes				
GFCI (Option)	Yes				

* Product specification is subject to change without prior notice

③ Normal condition : $V_{ip} = 12.5V / 25V$ $V_{op} = 100V / 110V / 115V / 120V / 200V / 220V / 230V / 240V$ Full load (PF=1.0)

Appearance and Mechanism



Model	A $\pm$ 1.0	B $\pm$ 1.0	C $\pm$ 0.5	D $\pm$ 0.5	E $\pm$ 0.5	F $\pm$ 0.5	G $\pm$ 1.0	H $\pm$ 1.0
TPS-70	207	192	88.9	33	48.5	110	222	7
TPS-100	247	192	88.9	33	48.5	150	222	7
TPS-150	307	192	88.9	33	78.5	150	222	7
TPS-200	372	192	88.9	33	78.5	215	222	7
TPS-300	457	192	88.9	33	78.5	295	222	7