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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# 1500W True Sine Wave DC-AC Power Inverter

# TS-1500 series



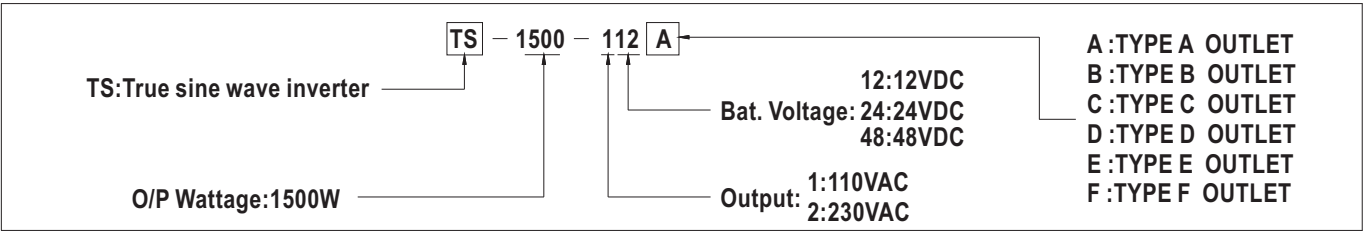
### ■ Features :

- True sine wave output (THD<3%)
- High surge power up to 3000W
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Optional monitoring software
- 3 years warranty



### SPECIFICATION

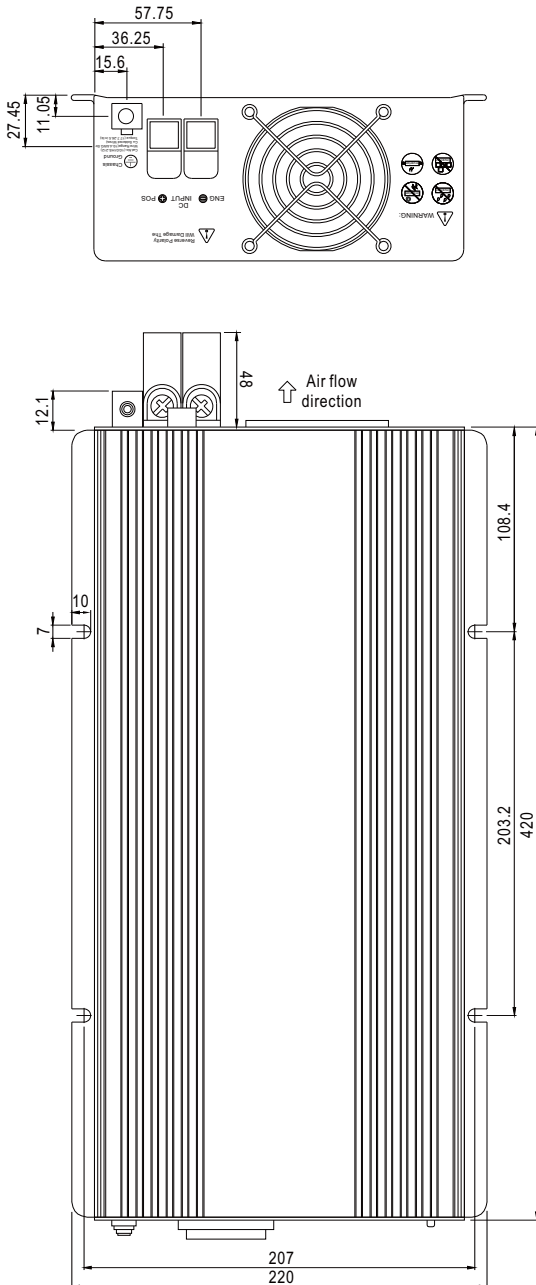
MODEL	TS-1500-112□	TS-1500-124□	TS-1500-148□	TS-1500-212□	TS-1500-224□	TS-1500-248□				
OUTPUT	RATED POWER (Typ.)						1500W			
	MAXIMUM OUTPUT POWER (Typ.)						1725W for 180 sec. / 1875W for 10 sec. / surge power 3000W for 30 cycles			
	AC VOLTAGE			200 / 220 / 230 / 240VAC selectable by setting button			100 / 110 / 115 / 120VAC selectable by setting button			
	FREQUENCY			50/60Hz selectable by setting button S.W			60±0.1Hz			
	WAVEFORM			True sine wave (THD<3%)			50±0.1Hz 50/60Hz selectable by setting button S.W			
	AC REGULATION (Typ.)			±3.0%			±3.0%			
	SAVING MODE (Typ.)			Default disabled. Load ≤5W will be changed to standby mode			Default disabled. Load ≤5W will be changed to standby mode			
FRONT PANEL INDICATOR			Battery voltage level, output load level, saving mode, fault and operation status			Battery voltage level, output load level, saving mode, fault and operation status				
INPUT	BAT. VOLTAGE		12V	24V	48V	12V	24V	48V		
	VOLTAGE RANGE (Typ.)		Note.3,6		10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.)		Note.5		150A	75A	37.5A	150A	75A	37.5A
	NO LOAD DISSIPATION (Typ.)		≤18W @ standby saving mode							
	OFF MODE CURRENT DRAW		≤1mA							
	EFFICIENCY (Typ.)		Note.2		87%	89%	89%	88%	90%	91%
BATTERY TYPES		Open & sealed Lead Acid								
BATTERY INPUT PROTECTION	FUSE		40A*5	30A*3	30A*2	40A*5	30A*3	30A*2		
	BAT. LOW ALARM		11.3±4%	22.5±4%	45±4%	11.3±4%	22.5±4%	45±4%		
	BAT. LOW SHUTDOWN		10.5±4%	21±4%	42±4%	10.5±4%	21±4%	42±4%		
	REVERSE POLARITY		By internal fuse open							
OUTPUT PROTECTION	OVER TEMPERATURE		82°C ± 5°C	82°C ± 5°C	96°C ± 5°C	68°C ± 5°C	68°C ± 5°C	68°C ± 5°C		
	OUTPUT SHORT		Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power transistor							
	OVER LOAD (Typ.)		105 ~ 115% load for 180 sec., 115% ~ 125% load for 10 sec.							
	GFCI PROTECTION		UL458 (only for "GFCI" receptacle-Type F)			None				
ENVIRONMENT	WORKING TEMP.		Note.1				0 ~ +40°C @ 100% load ; 60°C @ 50% load			
	WORKING HUMIDITY		20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH non-condensing							
	VIBRATION		10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS		UL458 (only for "GFCI" receptacle-Type F), EAC TP TC 004			EAC TP TC 004				
	LVD		None			EN60950-1				
	WITHSTAND VOLTAGE		Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC							
	EMC EMISSION		Compliance to FCC class A, EAC TP TC 020			Compliance to EN55032 class B, 72/ 245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020				
	EMC IMMUNITY		Compliance to EAC TP TC 020			Compliance to EN61000-4-2,3,8, EAC TP TC 020				
OTHERS	CONTROL WIRING		RJ11 -RS232 (Option)							
	DIMENSION		420*220*88mm (L*W*H)							
	PACKING		6.81Kg; 2pcs/14.6Kg/1.61CUFT							
NOTE	<p>1.Output derating capacity referenced by curve 1.</p> <p>2.TH.D and Efficiency is tested by 1000W, linear load at 13V, 26V, 52V input voltage.</p> <p>3.Input derating capacity referenced by curve 2.</p> <p>4.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.</p> <p>5.DC current is tested by 1500W, linear load at 13V, 26V, 52V input voltage.</p> <p>6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V.</p> <p>7.Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly.</p> <p>8.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p>									



■ AC Output Receptacles (optional)

Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate						

■ Mechanical Specification



■ Derating Curve

