



# TS-1500 Series

## 1500W True Sine Wave DC-AC Inverter

- Feature:**
- 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



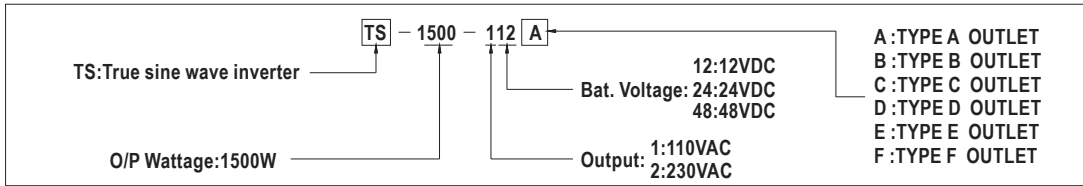
### SPECIFICATION

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 100 / 110 / 115 / 120VAC selectable by setting button			200 / 220 / 230 / 240VAC selectable by setting button			
	FREQUENCY 60± 0.1Hz 50/60Hz selectable by setting button S.W 50± 0.1Hz 50/60Hz selectable by setting button S.W						
	WAVEFORM Note.2 True sine wave (THD<3%)						
	AC REGULATION (Typ.) ± 3.0%						
	SAVING MODE (Typ.) 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							
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 INPUT PROTECTION	BATTERY TYPES Open & sealed Lead Acid						
	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 ± 5	82 ± 5	96 ± 5	68 ± 5	68 ± 5	68 ± 5
	Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power transistor						
	OUTPUT SHORT	Protection type : Shut down o/p voltage, re-power on to recover					
	OVER LOAD (Typ.)	105 ~ 115% load for 180 sec., 115% ~ 125% load for 10 sec.					
Protection type : Shut down o/p voltage, re-power on to recover							
GFCI PROTECTION UL458 (only for "GFCI" receptacle-Type F) None							
ENVIRONMENT	WORKING TEMP. Note.1	0 ~ +40 @ 100% load ; 60 @ 50% load					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-30 ~ +70 / -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) None						
	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			Compliance to EN55032 class B, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		
	EMC IMMUNITY	None			Compliance to EN61000-4-2,3,8		
OTHERS	CONTROL WIRING RJ11 -RS232 (Option)						
	DIMENSION 420*220*88mm (L*W*H)						
	PACKING 6.81Kg; 2pcs/14.6Kg/1.61CUFT						
NOTE	1. Output derating capacity referenced by curve 1. 2. THD and Efficiency is tested by 1000W, linear load at 13V, 26V, 52V input voltage. 3. Input derating capacity referenced by curve 2. 4. All parameters not specified above are measured at rated load, 25 of ambient temperature and set to factory setting. 5. DC current is tested by 1500W, linear load at 13V, 26V, 52V input voltage. 6. The tolerance of each voltage value by models is: 112/212 → ±0.5V; 124/224 → ±1V; 148/248 → ±2V. 7. Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly.						

File Name: TS-1500-SPEC 2017-07-14

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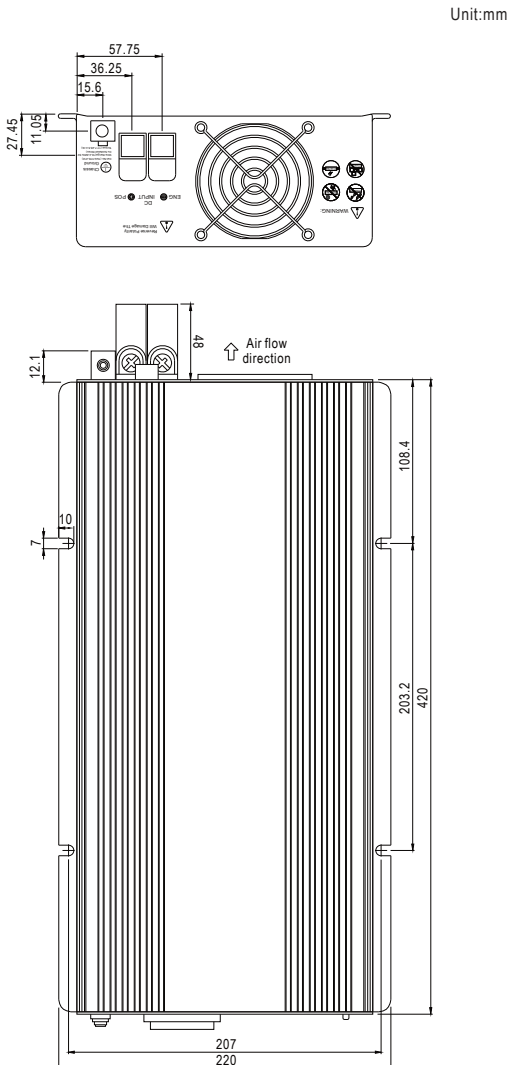
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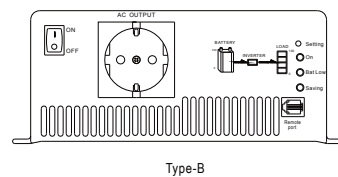
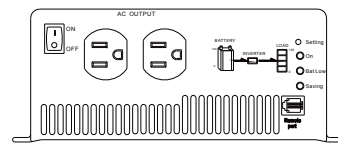
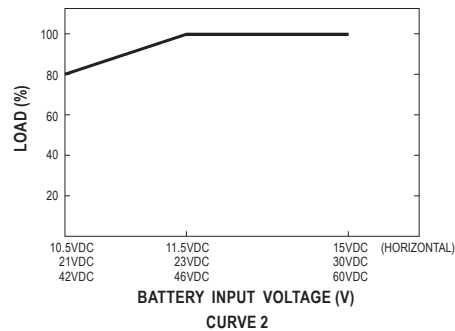
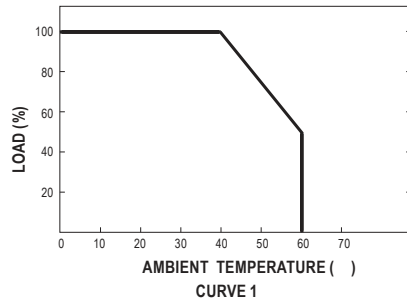
### AC Output Receptacles (optional)

Receptacle type	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	UL US FC (Except for 45V input)

### Mechanical Specification



### Derating Curve



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