MEAN WELL

3000W True Sine Wave DC-AC Power Inverter

TS-3000 series

Features :

- True sine wave output (THD<3%)
- High surge power up to 6000W
- High efficiency up to 92%
- 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

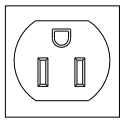
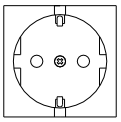
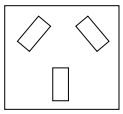
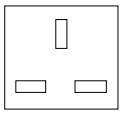
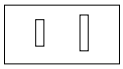
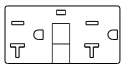
SPECIFICATION

MODEL		TS-3000-112□	TS-3000-124□	TS-3000-148□	TS-3000-212□	TS-3000-224□	TS-3000-248□
OUTPUT	RATED POWER (Typ.)	3000W	3000W	3000W	3000W	3000W	3000W
	MAXIMUM OUTPUT POWER	3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W 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	True sine wave (THD<3%) at rated input voltage					
	AC REGULATION (Typ.)	±3%					
	SAVING MODE (Typ.)	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.1	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.) Note.5	300A	150A	75A	300A	150A	75A
	NO LOAD DISSIPATION (Typ.)	≦10W @ standby saving mode					
	OFF MODE CURRENT DRAW	≦1mA					
	EFFICIENCY (Typ.) Note.2	88%	90%	91%	89%	91%	92%
	BATTERY TYPES	Open & sealed Lead Acid					
BATTERY INPUT PROTECTION	FUSE	80A*5	40A*5	30A*3	80A*5	40A*5	30A*3
	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%
	BAT. POLARITY	By internal fuse open					
OUTPUT PROTECTION	OVER TEMPERATURE	105℃±5℃	95℃±5℃	95℃±5℃	90℃±5℃	85℃±5℃	85℃±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% ~ 150% load for 10 sec.					
		Protection type : Shut down o/p voltage, re-power on to recover					
	CIRCUIT BREAKER	AC output receptacle : 15A					
	GFCI PROCTECTION	Optional (Only type F)			None		
ENVIRONMENT	WORKING TEMP. Note.3	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					
	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					
	EMI CONDUCTION&RADIATION	Compliance to FCC class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		
	EMS IMMUNITY	None			Compliance to EN61000-4-2,3,8 ENV50204		
OTHERS	CONTROL WIRING	RJ11 -RS232 (Option)					
	DIMENSION	466.8*283.5*100mm (L*W*H)					
	PACKING	11.9Kg; 1pcs/13Kg/1.98CUFT					
NOTE	1.Efficiency is tested by 2100W, linear load at 13V, 26V, 52V input voltage. 2.Output derating capacity referenced by curve 1. 3.DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage. 4.All parameters not specified above are measured at rated load, 25℃ of ambient temperature. 5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V						

TS – 3000 – 112 A

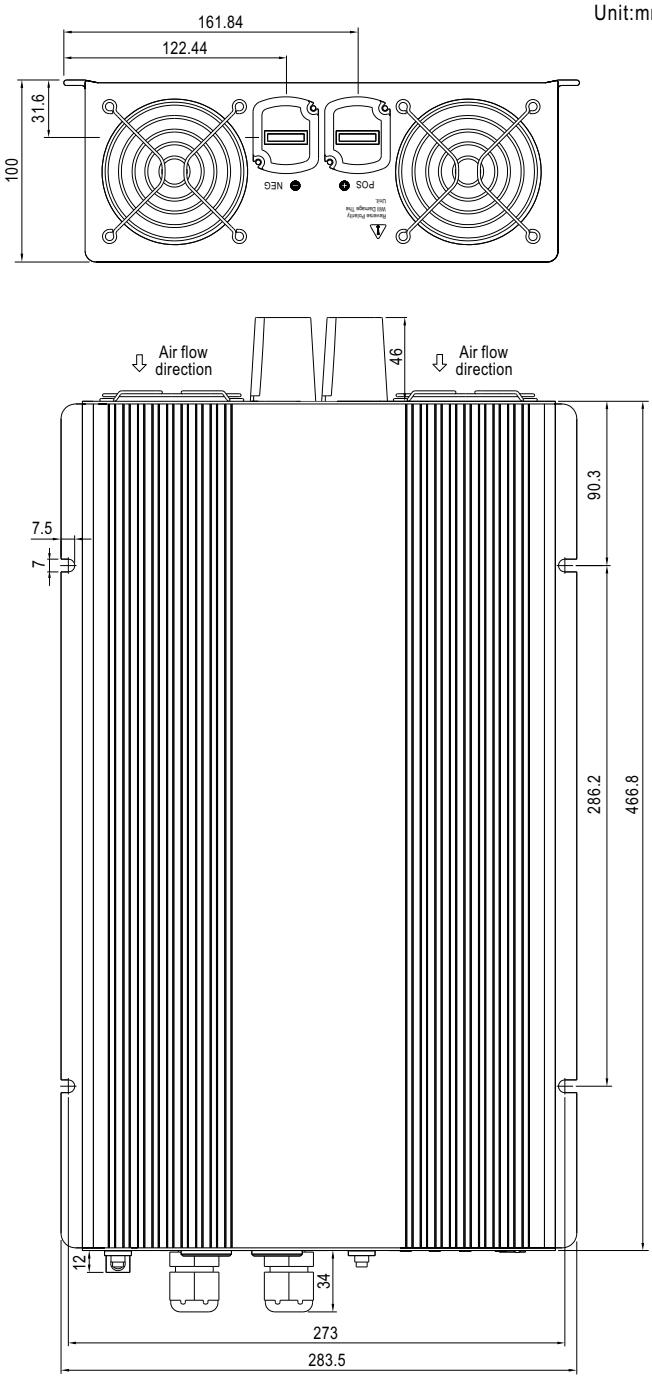
- TS: True sine wave inverter
- O/P Wattage: 3000W
- Bat. Voltage: 12:12VDC, 24:24VDC, 48:48VDC
- Output: 1:110VAC, 2:230VAC
- A: TYPE A OUTLET
- B: TYPE B OUTLET
- C: TYPE C OUTLET
- D: TYPE D OUTLET
- E: TYPE E OUTLET
- F: TYPE F OUTLET

■ AC Output Receptacle (optional)

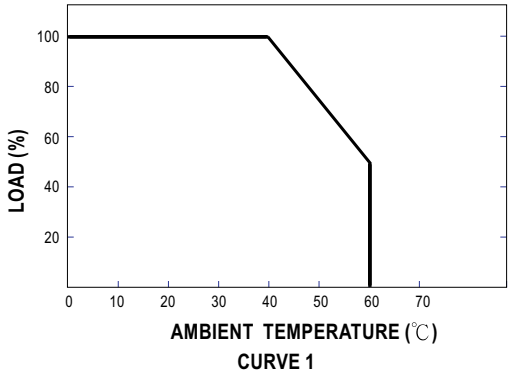
Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate	FC	E13 CE	E13 CE	E13 CE	FC	c UL us (Expect for 48V input) FC

■ Mechanical Specification

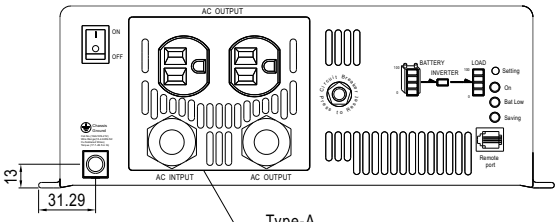
Unit:mm



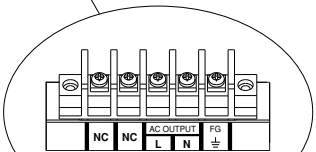
■ Derating Curve

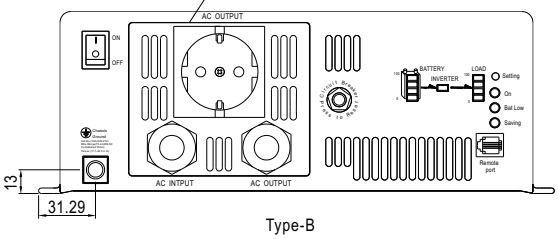


CURVE 1



Type-A





Type-B