



■ 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 / AC circuit breaker
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Optional monitoring software and connection cable (MW order No.: DS-TN-1500)
- 3 years warranty

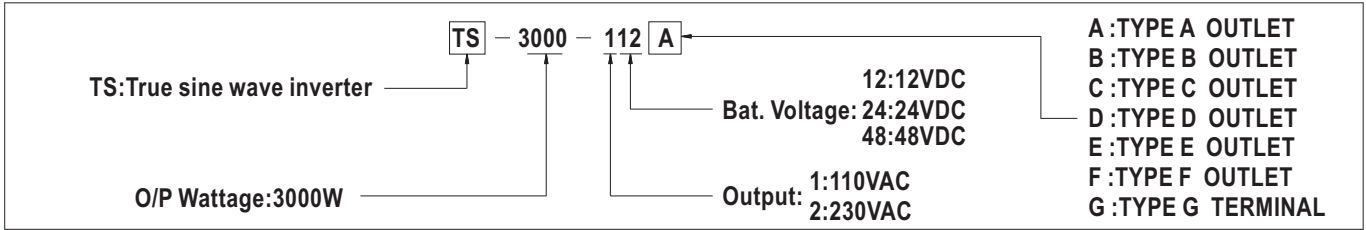


SPECIFICATION

MODEL	TS-3000-112	TS-3000-124	TS-3000-148	TS-3000-212	TS-3000-224	TS-3000-248		
OUTPUT	RATED POWER (Typ.) 3000W							
	MAXIMUM OUTPUT POWER (Typ.) 3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles							
	AC VOLTAGE			AC VOLTAGE				
	Factory setting set at 110VAC			Factory setting set at 230VAC				
	100 / 110 / 115 / 120VAC selectable by setting button S.W			200 / 220 / 230 / 240VAC selectable by setting button S.W				
	FREQUENCY			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.) 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.4		300A	150A	75A	300A	150A	75A
	NO LOAD DISSIPATION (Typ.) ≤ 10W @ standby saving mode							
	OFF MODE CURRENT DRAW (Typ.) ≤ 1mA							
	EFFICIENCY (Typ.) Note.1		88%	90%	91%	89%	91%	92%
	BATTERY TYPES Open & sealed lead acid battery							
BATTERY INPUT PROTECTION	FUSE		40A*12	40A*6	20A*6	40A*12	40A*6	20A*6
	BAT. LOW ALARM Note.6		11.3V	22.5V	45V	11.3V	22.5V	45V
	BAT. LOW SHUTDOWN Note.6		10.5V	21V	42V	10.5V	21V	42V
	REVERSE POLARITY By internal fuse open							
OUTPUT PROTECTION	OVER TEMPERATURE		90°C ± 5°C	85°C ± 5°C	85°C ± 5°C	80°C ± 5°C	75°C ± 5°C	75°C ± 5°C
	Protection type : Shut down o/p voltage, re-power on to recover							
	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 PROTECTION				Optional (Only type F)			None	
ENVIRONMENT	WORKING TEMP. Note.2		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							
	VIBRATION 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS				UL458 (only for Type G)			None
	LVD					None		EN60950-1
	WITHSTAND VOLTAGE Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC							
	ISOLATION RESISTANCE Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION				Compliance to FCC class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark
	EMC IMMUNITY				None			Compliance to EN61000-4-2,3,4,5,6,8,11
OTHERS	CONTROL WIRING RJ11 -RS232 (Option)							
	DIMENSION 466.8*283.5*100mm (L*W*H)							
	PACKING 12.9Kg; 1pcs/14Kg/1.98CUFT							

NOTE

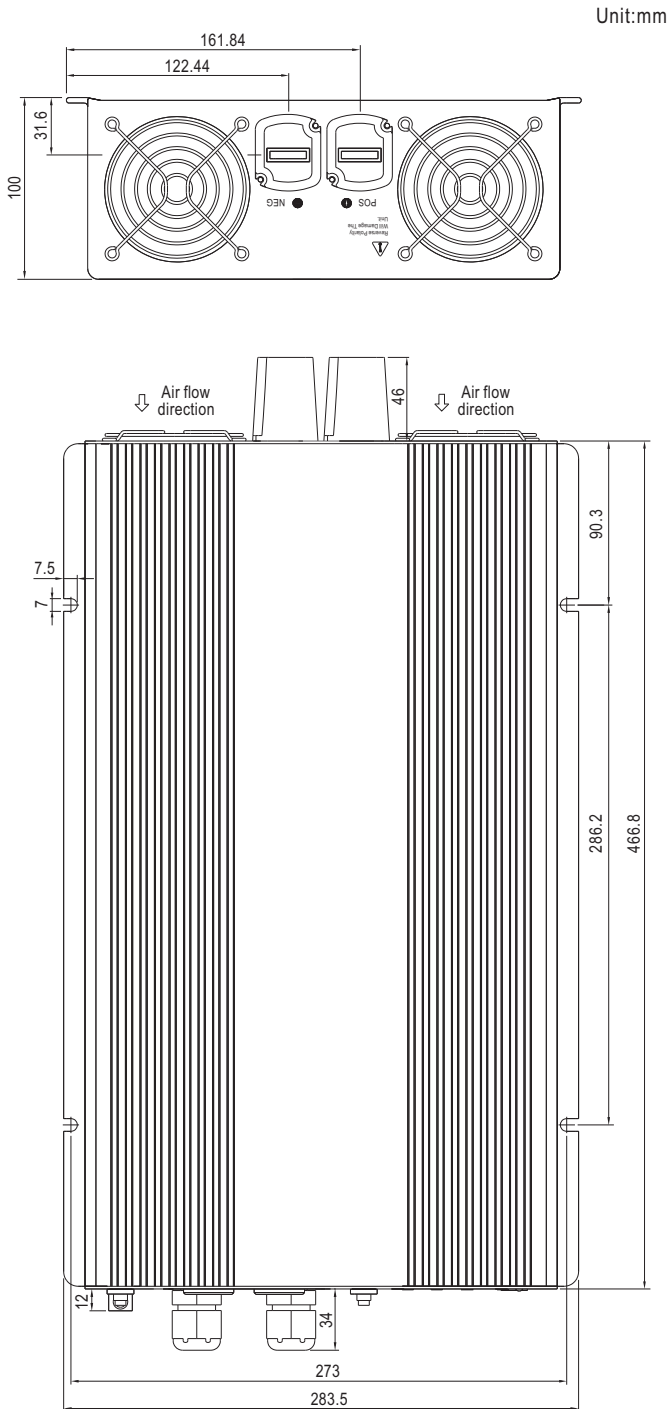
1. Efficiency is tested by 2100W, linear load at 13V, 26V, 52V input voltage.
2. Output derating capacity referenced by curve 1.
3. Input derating capacity referenced by curve 2.
4. DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage.
5. All parameters not specified above are measured at rated load, 25°C of ambient temperature.
6. The tolerance of each voltage value by models is: 112/212 → ±0.5V; 124/224 → ±1V; 148/248 → ±2V



AC Output Receptacle (optional)

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

Mechanical Specification



Derating Curve

