



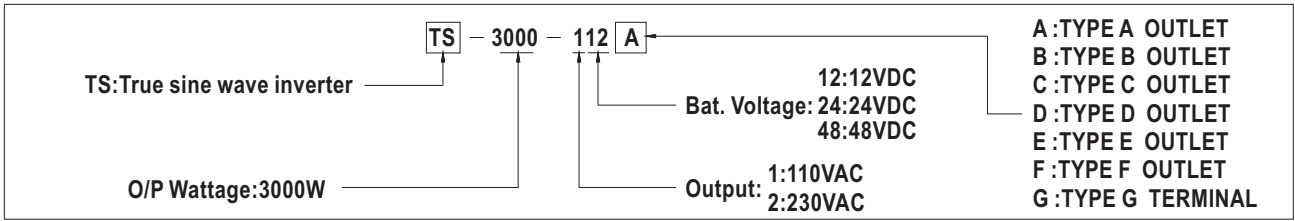
■ Features :

- 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		Factory setting set at 110VAC 100 / 110 / 115 / 120VAC selectable by setting button S.W		Factory setting set at 230VAC 200 / 220 / 230 / 240VAC selectable by setting button S.W			
	FREQUENCY		60 ± 0.1Hz 50/60Hz selectable by setting button S.W		50 ± 0.1Hz 50/60Hz selectable by setting button S.W			
	WAVEFORM <small>Note.7</small>		True sine wave (THD<3%)					
	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.) <small>Note.3,6</small>		10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.) <small>Note.4</small>		300A	150A	75A	300A	150A	75A
	NO LOAD DISSIPATION (Typ.)		≤ 10W @ standby saving mode					
	OFF MODE CURRENT DRAW (Typ.)		≤ 1mA					
	EFFICIENCY (Typ.) <small>Note.1</small>		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 <small>Note.6</small>		11.3V	22.5V	45V	11.3V	22.5V	45V
	BAT. LOW SHUTDOWN <small>Note.6</small>		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
	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.					
	CIRCUIT BREAKER		AC output receptacle:15A					
	GFCI PROTECTION		Optional (Only type F)				None	
ENVIRONMENT	WORKING TEMP. <small>Note.2</small>		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	<p>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 and set to factory setting. 6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V 7.THd is tested by 3000W, linear load at 13,26,52V input voltage.</p>							



AC Output Receptacle (optional)

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

Mechanical Specification

Unit:mm

161.84
122.44
31.6
100
7.5
7
273
283.5
286.2
466.8
90.3
46
Air flow direction

Derating Curve

CURVE 1

Ambient Temperature (°C)	Load (%)
0	100
40	100
60	50
70	0

CURVE 2

Battery Input Voltage (V)	Load (%)
10.5VDC	80
11.5VDC	100
15VDC	100

AC Receptacle

Type-A

Type-B

Note: When the load current is >15A, must use output terminal connection which can be found inside the AC output panel of the inverter.