



3000W True Sine Wave DC-AC Inverter

TS-3000 series



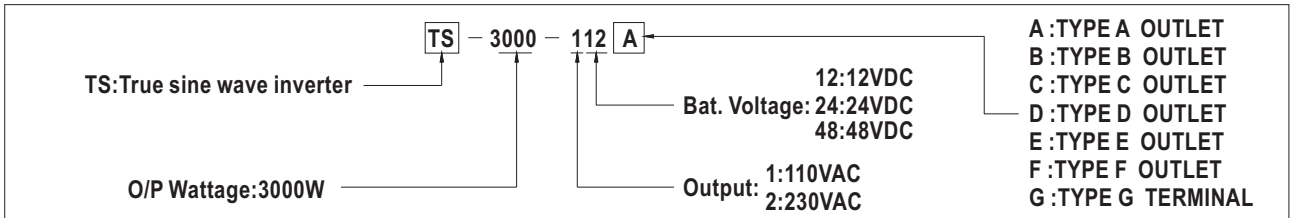
■ Features :

- 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 / 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			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						60±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	FUUSE						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 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. <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 non-condensing
	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 EN55032 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/1.49CUFT
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 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. 8.Please do not turn on the inverter before start the engine if inverter connect to vehicle's battery directly.						



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

Derating Curve

CURVE 1

CURVE 2

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.