



## 3000W True Sine Wave DC-AC Inverter

## TS-3000 series



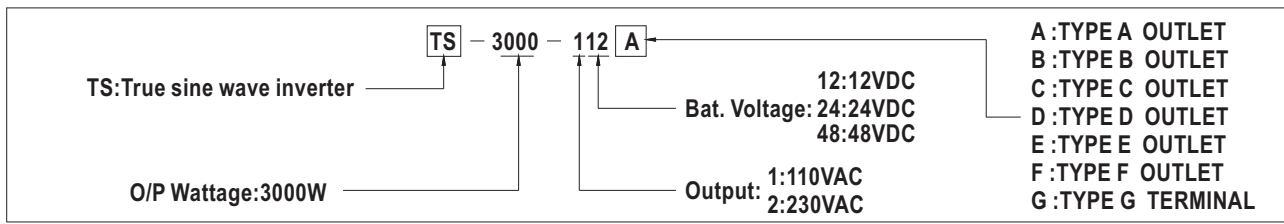
## ■ Features :

- 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

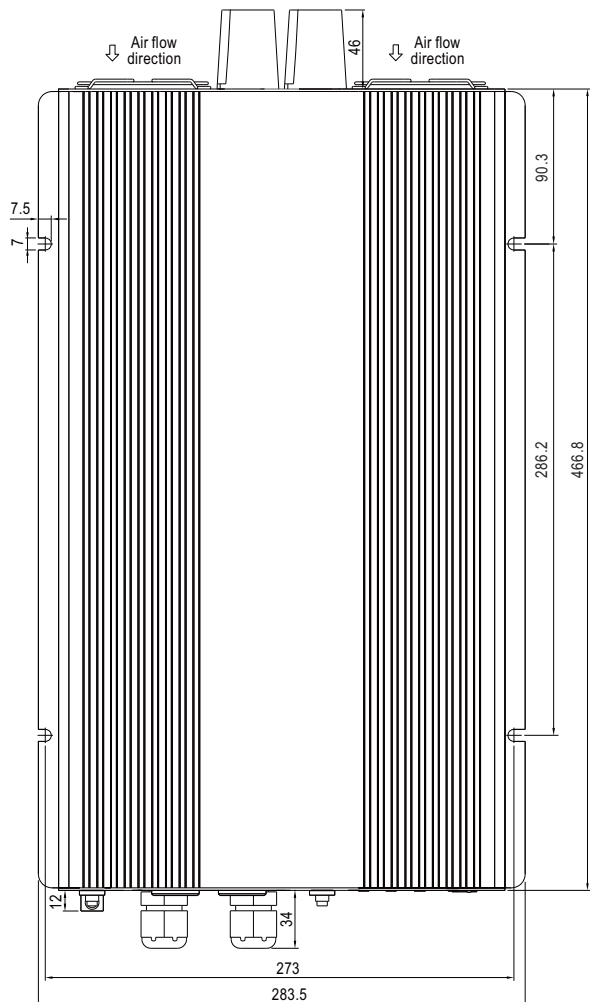
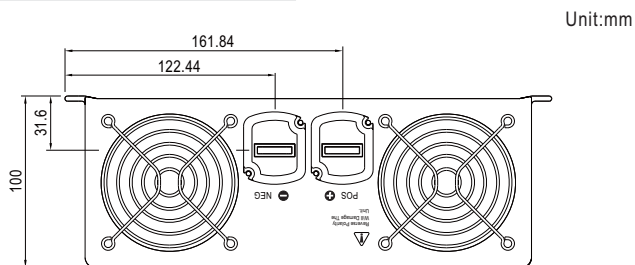
MODEL	TS-3000-112□	TS-3000-124□	TS-3000-148□	TS-3000-212□	TS-3000-224□	TS-3000-248□												
OUTPUT	RATED POWER (Typ.) 3000W																	
	MAXIMUM OUTPUT POWER (Typ.) 3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles																	
	AC VOLTAGE			Factory setting set at 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						50±0.1Hz 50/60Hz selectable by setting button S.W					
	WAVEFORM						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.)		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 non-condensing											
	VIBRATION						10 ~ 500Hz, 3G 10min./1 cycle, 60min. each along X, Y, Z axes											
SAFETY & EMC	SAFETY STANDARDS			UL458 (only for Type G), EAC TP TC 004			EAC TP TC 004											
	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, EAC TP TC 020			Compliance to EN55032 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark, EAC TP TC 020											
	EMC IMMUNITY			Compliance to EAC TP TC 020			Compliance to EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020											
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. 9.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).																	



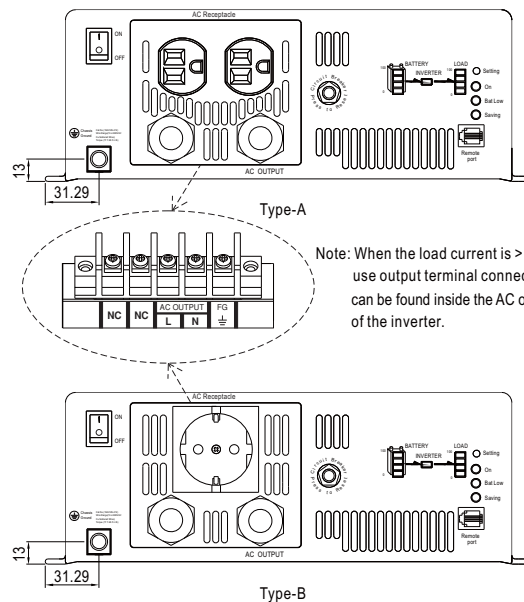
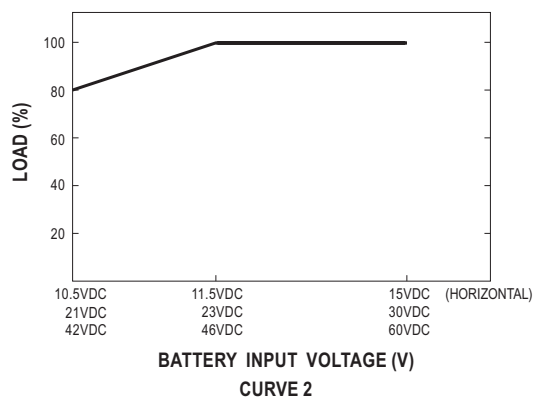
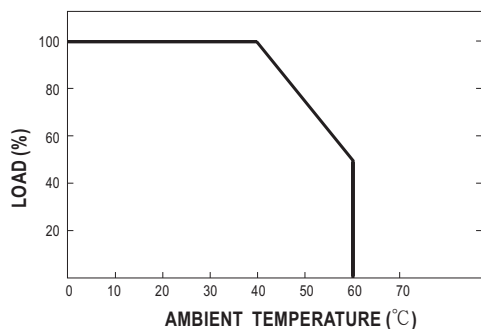
### AC Output Receptacle (optional)

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



### Derating Curve



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