



3000W True Sine Wave DC-AC Inverter

TS-3000 series

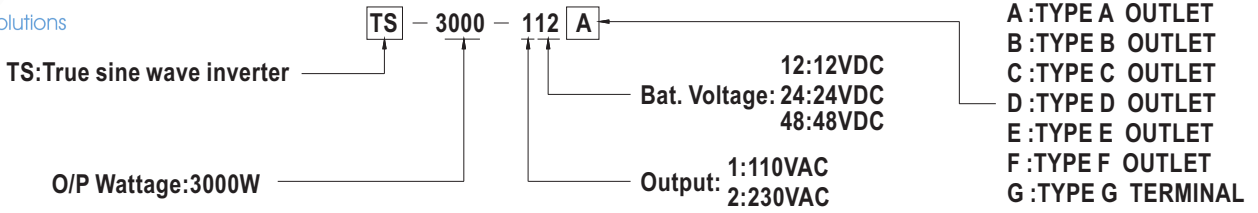


- Features :
 - True sine wave output (THD<3%)
 - High surge power up to 6000W
 - High efficiency up to 92%
 - Power ON-OFF switch
 - Standby saving mode can be selectable
 - Front panel indicator for operation status
 - Thermostatically controlled cooling fan
 - Protections: Bat. low alarm / Bat. low 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

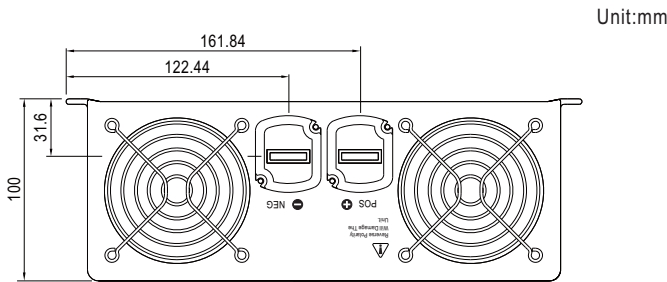
MODEL	TS-3000-112□	TS-3000-124□	TS-3000-148□	TS-3000-212□	TS-3000-224□	TS-3000-248□						
OUTPUT	RATED POWER (Typ.) 3000W											
	MAXIMUM OUTPUT POWER (Typ.) 3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles											
	AC VOLTAGE			Factory setting set at 110VAC			Factory setting 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 Note.7 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											
	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/1.49CUFT											
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.TH.D is tested by 3000W, linear load at 13,26,52V input voltage.											



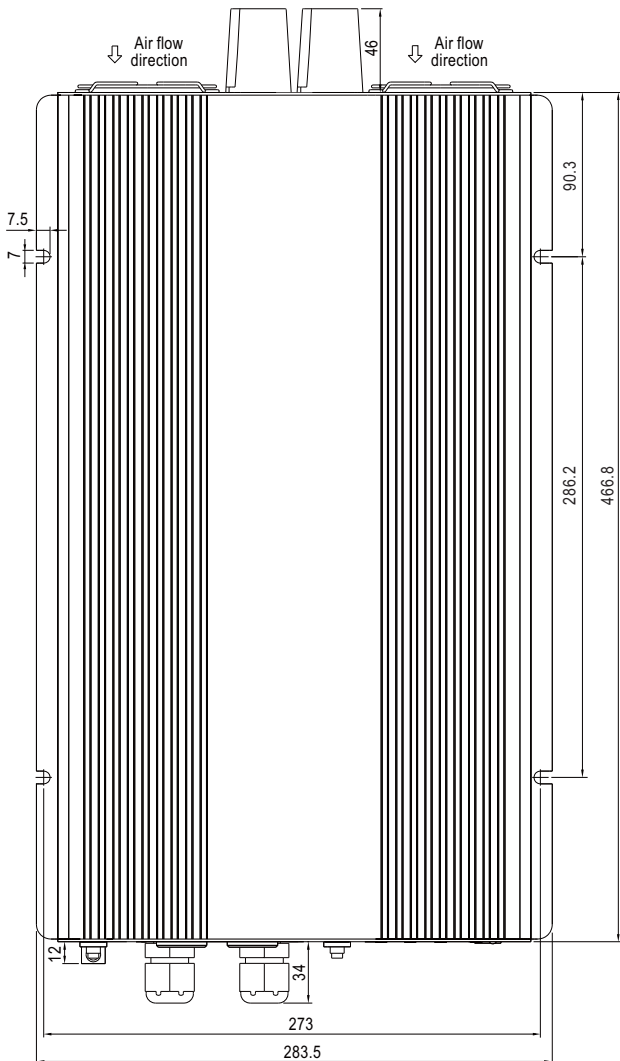
AC Output Receptacle (optional)

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 (Except for 48V input)

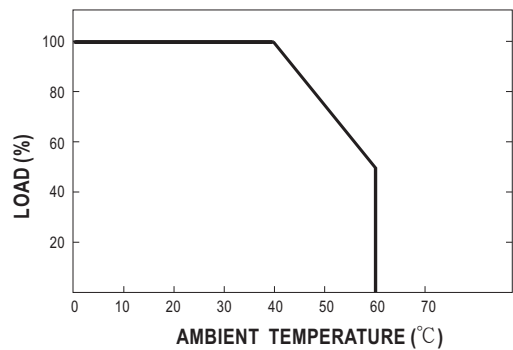
Mechanical Specification



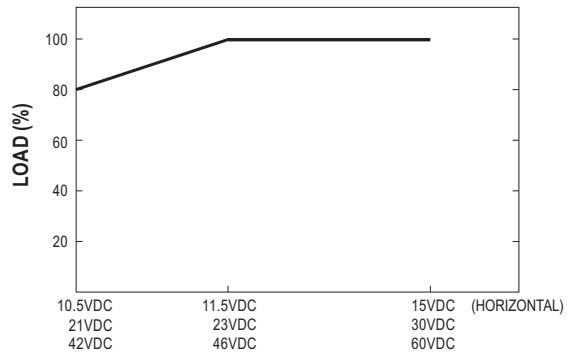
Unit:mm



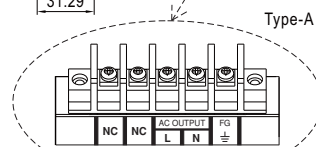
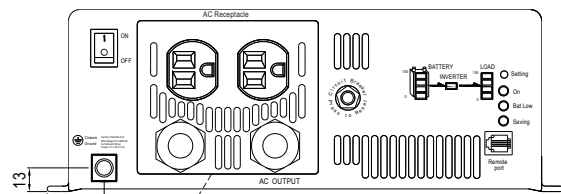
Derating Curve



AMBIENT TEMPERATURE (°C)
CURVE 1



BATTERY INPUT VOLTAGE (V)
CURVE 2



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

