



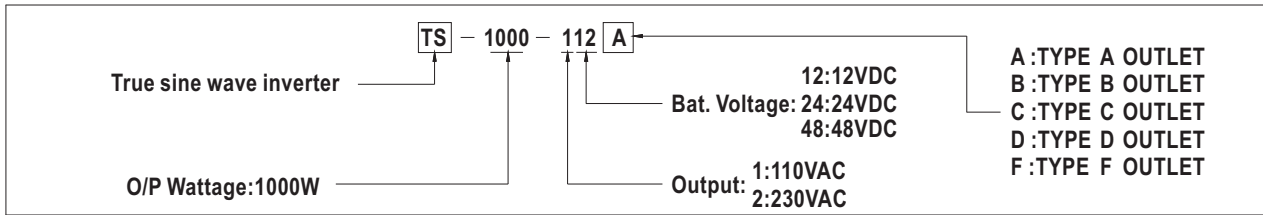
■ Features :

- True sine wave output (THD<3%)
- High surge power up to 2000W
- High efficiency up to 92%
- Power ON-OFF switch
- Standby saving mode can be selected
- Front panel indicator for operation status
- Built-in fan ON-OFF control function
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- 3 years warranty



SPECIFICATION

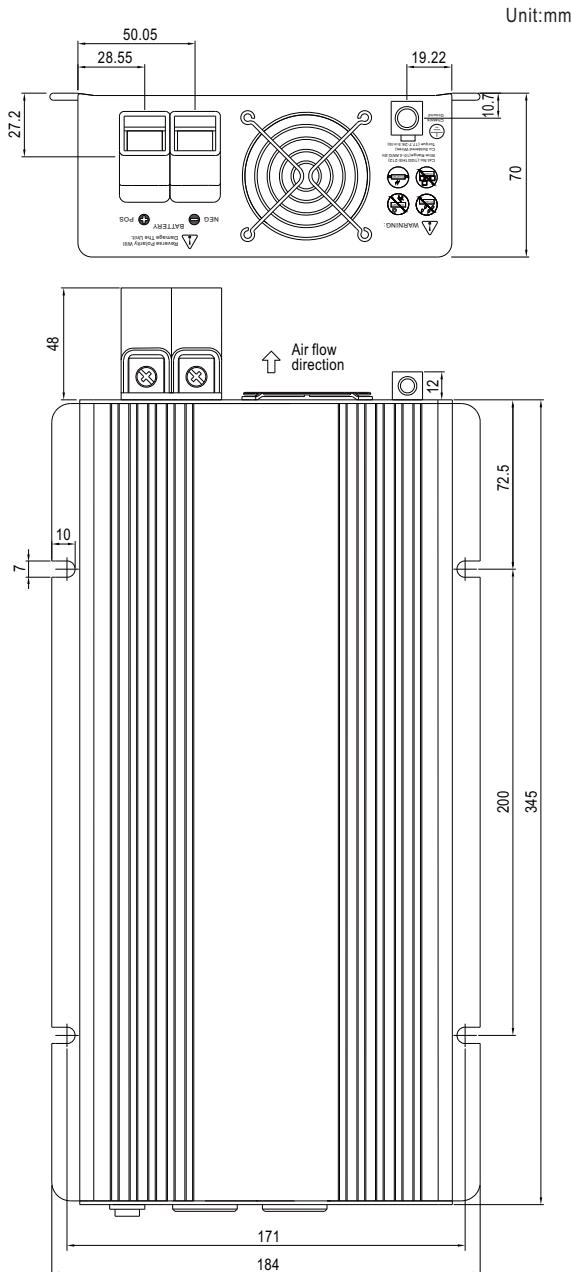
MODEL NO.		TS-1000-112□	TS-1000-124□	TS-1000-148□	TS-1000-212□	TS-1000-224□	TS-1000-248□	
		□ = A, F			□ = B, C, D			
OUTPUT	RATED POWER (Typ.)	1000W						
	MAXIMUM OUTPUT POWER (Typ.)	1150W for 180 sec. / 1500W for 10 sec. / surge power 2000W for 30 cycles						
	AC VOLTAGE	Factory setting set at 110VAC			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.6	True sine wave (THD<3%)					
	AC REGULATION (Typ.)	±3.0%						
	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.4,6	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.)	100A	50A	25A	100A	50A	25A	
	NO LOAD DISSIPATION (Typ.)	≤6W @ standby saving mode						
	OFF MODE CURRENT DRAW	≤1mA						
	EFFICIENCY (Typ.)	Note.1	88%	89%	90%	90%	91%	92%
	BATTERY TYPES	Open & sealed lead acid						
BATTERY INPUT PROTECTION	FUSE	40A*4	40A*2	20A*2	40A*4	40A*2	20A*2	
	BAT. LOW ALARM	11.3±4%	22.5±4%	45±4%	11.3±4%	22.5±4%	45±4%	
	BAT. LOW SHUTDOWN	10.5±4%	21±4%	42±4%	10.5±4%	21±4%	42±4%	
	REVERSE POLARITY	By internal fuse open						
	OVER TEMPERATURE	90℃ ± 5℃			70℃ ± 5℃			
OUTPUT PROTECTION	OUTPUT SHORT	Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power diode						
	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						
	GFCI PROTECTION	Optional (Only type F)			None			
	ENVIRONMENT	WORKING TEMP.	Note.3	0 ~ +40℃ @ 100% load ; +60℃ @ 50% load				
WORKING HUMIDITY		20% ~ 90% RH non-condensing						
STORAGE TEMP., HUMIDITY		-30 ~ +70℃ / -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 "GFCI" receptacle-Type F), EAC TP TC 004			EAC TP TC 004	IEC62368-1 CB, EAC TP TC 004 approved		
	WITHSTAND VOLTAGE	Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC						
	ISOLATION RESISTANCE	AC O/P-FG, Bat I/P-FG:100M Ohms/500VDC / 25℃ / 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 EN61000-4-2,3,8, EAC TP TC 020			
OTHERS	MTBF	66.9K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	345*184*70mm (L*W*H)						
	PACKING	4.3Kg; 2pcs/9.6Kg/1.16CUFT						
	COOLING	Loading controlled cooling fan for GFCI receptacle-type F ; Thermostatically controlled cooling fan for others.						
NOTE	1.Efficiency is tested by 750W, linear load at 13V, 26V, 52V input voltage. 2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature and set to factory setting. 3.Output derating capacity referenced by curve 1. 4.Input derating capacity referenced by curve 2. 5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V 6.THd is tested by 1000W, linear load at 13,26,52V input voltage. 7.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).							



AC Output Socket (optional)

MODEL NO.	TS-1000-112 ☐	TS-1000-124 ☐	TS-1000-148 ☐	TS-1000-212 ☐	TS-1000-224 ☐	TS-1000-248 ☐
Socket type						
	TYPE-A		TYPE-F	TYPE-B	TYPE-C	TYPE-D
	Standard		Optional	Standard	Optional	Optional
Country	USA		GFCI	EUROPE	AUSTRALIA	U.K
Certificate						

Mechanical Specification



Derating Curve

