



1000W True Sine Wave DC-AC Power Inverter

TS-1000 series



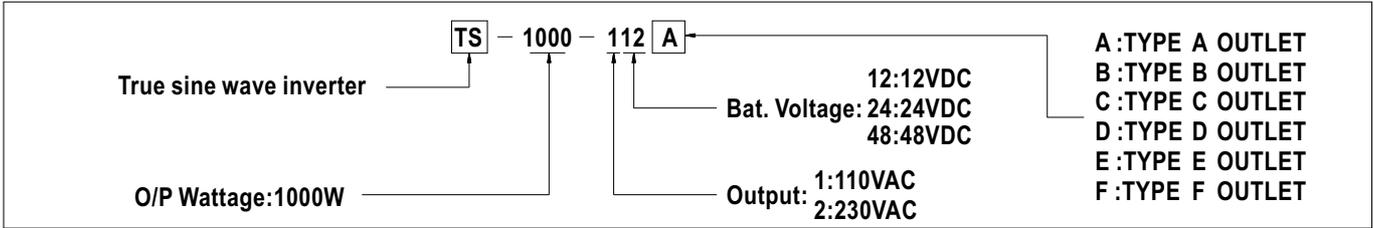
■ Features :

- 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

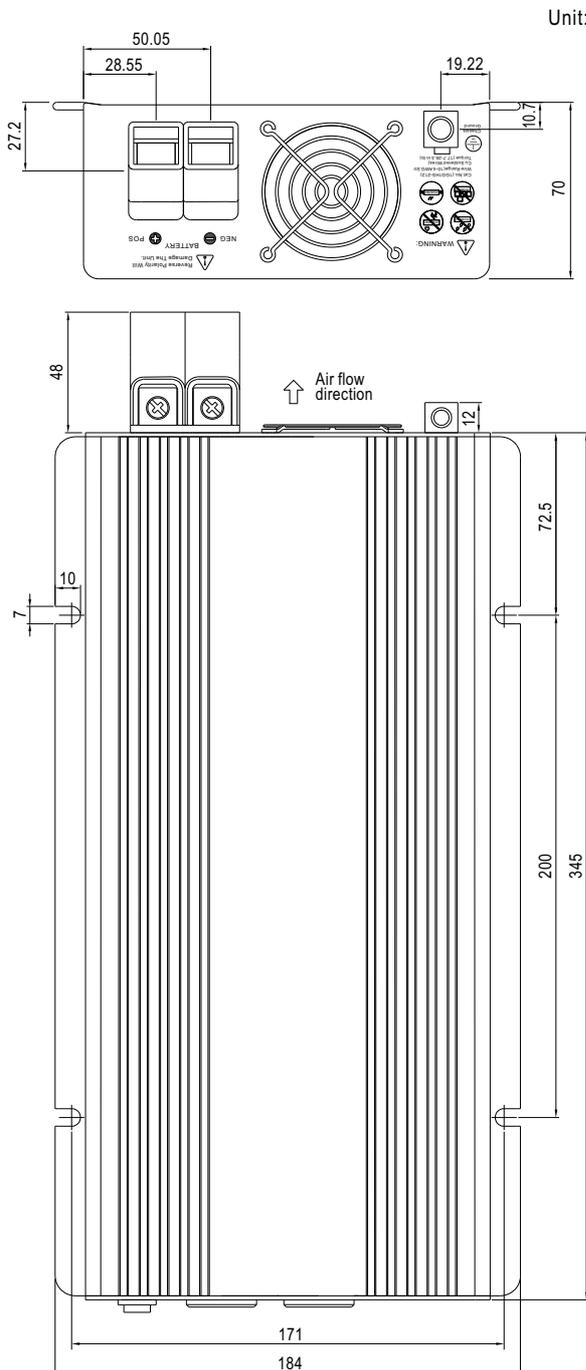
MODEL	TS-1000-112□	TS-1000-124□	TS-1000-148□	TS-1000-212□	TS-1000-224□	TS-1000-248□	
OUTPUT	RATED POWER (Typ.) 1000W						
	MAXIMUM OUTPUT POWER (Typ.) 1150W for 180 sec. / 1500W for 10 sec. / surge power 2000W for 30 cycles						
	AC VOLTAGE			AC VOLTAGE			
	100 / 110 / 115 / 120VAC selectable by setting 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 True sine wave (THD<3%) at rated input voltage						
	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		BAT. VOLTAGE		BAT. VOLTAGE		
	12V		24V		48V		
	VOLTAGE RANGE (Typ.) ^{Note.3} 10.5 ~ 15VDC 21 ~ 30VDC 42 ~ 60VDC 10.5 ~ 15VDC 21 ~ 30VDC 42 ~ 60VDC						
	DC CURRENT (Typ.)		DC CURRENT (Typ.)		DC CURRENT (Typ.)		
	100A		50A		25A		
	NO LOAD DISSIPATION ≤6W @ standby saving mode						
	OFF MODE CURRENT DRAW ≤1mA						
EFFICIENCY (Typ.) ^{Note.1}		EFFICIENCY (Typ.)		EFFICIENCY (Typ.)			
88%		89%		90%			
BATTERY TYPES Open & sealed lead acid							
BATTERY INPUT PROTECTION	FUUSE		FUUSE		FUUSE		
	40A*4		40A*2		20A*2		
	BAT. LOW ALARM		BAT. LOW ALARM		BAT. LOW ALARM		
	11.3±4%		22.5±4%		45±4%		
BAT. LOW SHUTDOWN		BAT. LOW SHUTDOWN		BAT. LOW SHUTDOWN			
10.5±4%		21±4%		42±4%			
REVERSE POLARITY By internal fuse open							
OUTPUT PROTECTION	OVER TEMPERATURE			OVER TEMPERATURE			
	90°C ± 5°C			70°C ± 5°C			
	Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power diode						
	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							
GFCI PROTECTION				GFCI PROTECTION		GFCI PROTECTION	
Optional (Only type F)				None		None	
ENVIRONMENT	WORKING TEMP. ^{Note.4} 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			SAFETY STANDARDS			
	UL458 (only for "GFCI" receptacle-Type F)			None			
	LVD			LVD			
	None			EN60950-1			
	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°C / 70% RH						
EMC EMISSION				EMC EMISSION		EMC EMISSION	
Compliance to FCC class A				Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark	
EMC IMMUNITY							
None							
Compliance to EN61000-4-2,3,8							
OTHERS	MTBF 66.9K hrs min. MIL-HDBK-217F (25°C)						
	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°C of ambient temperature. 3.Output derating capacity referenced by curve 1. 4.Output derating capacity referenced by curve 2.						



AC Output Receptacles (optional)

Receptacle type						
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate						

Mechanical Specification



Derating Curve

