



## 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.
- 2 years warranty



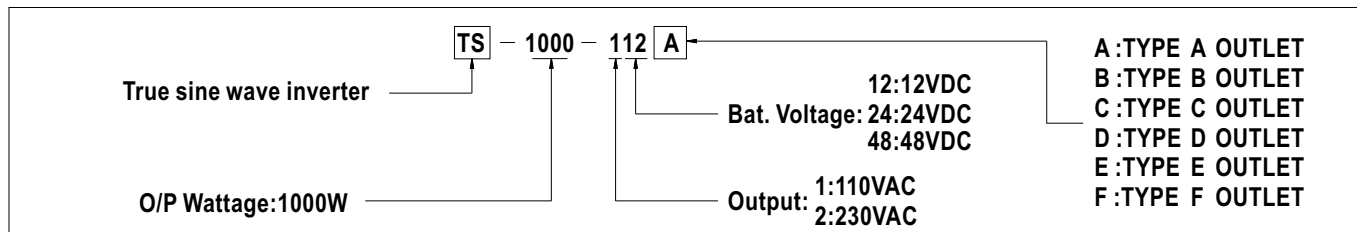
## SPECIFICATION

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			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						True sine wave (THD<3%) at rated input voltage		
	AC REGULATION (Typ.)						±3.0%		
	SAVING MODE (Typ.)						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.)		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		≤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						
OUTPUT PROTECTION	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		Optional (Only type F)				None			
ENVIRONMENT	WORKING TEMP.		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 "GFCI" receptacle-Type F)		None				
	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						
	EMI CONDUCTION&RADIATION		Compliance to FCC class A			Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark			
	EMS IMMUNITY		None			Compliance to EN61000-4-2,3,8 ENV50204			
OTHERS	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.								



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### AC Output Receptacles (optional)

Receptacle type						
	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate						

### Mechanical Specification

Unit:mm

