

1000W True Sine Wave DC-AC Power Inverter

TS-1000 series



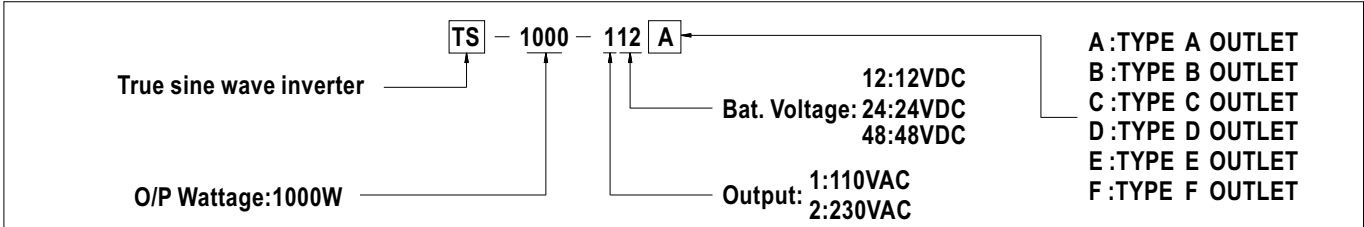
■ Features :

- 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.



SPECIFICATION

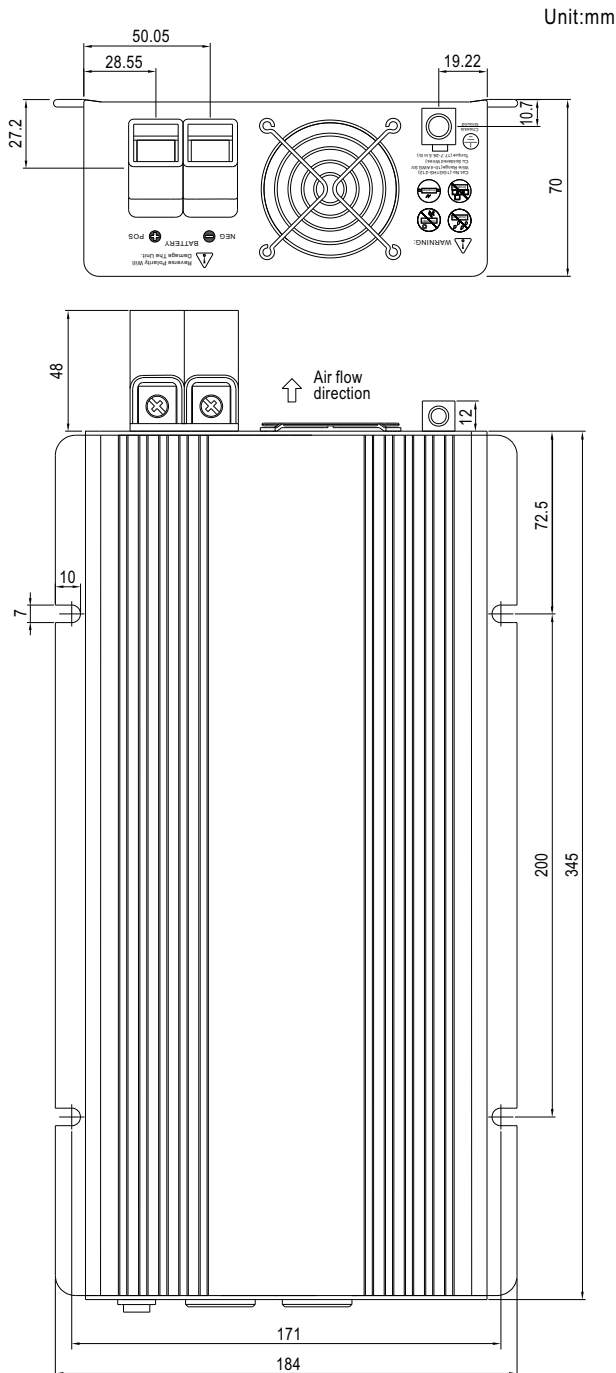
MODEL	TS-1000-112□	TS-1000-124□	TS-1000-148□	TS-1000-212□	TS-1000-224□	TS-1000-248□				
OUTPUT	RATED POWER (Typ.)						1000W			
	MAXIMUM OUTPUT POWER (Typ.)						1150W for 180 sec. / 1500W for 10 sec. / surge power 2000W for 30 cycles			
	AC VOLTAGE			Factory setting set at 110VAC			Factory setting set 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.) ^{Note.3}		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. ^{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			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	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.									



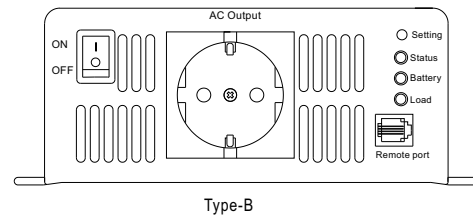
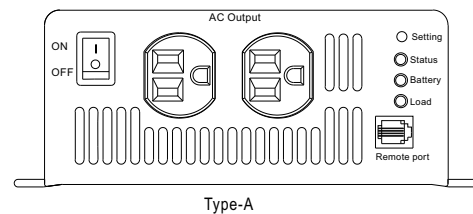
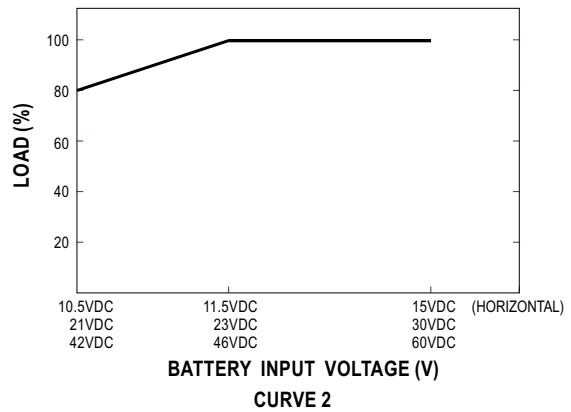
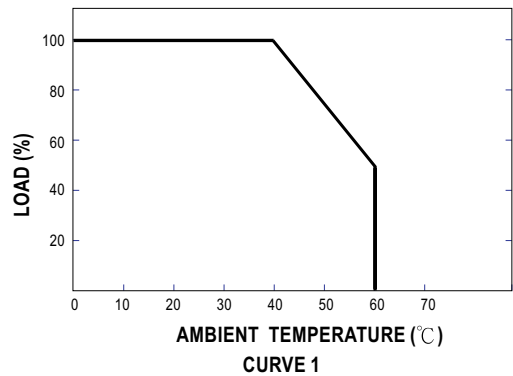
■ AC Output Receptacles (optional)

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

■ Mechanical Specification



■ Derating Curve





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GARANTIA

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LA GARANTÍA CUBRE LAS SITUACIONES DE DAÑO INTRÍNSECO, Y NO LAS PROVOCADAS POR CAUSAS EXTERNAS O LA MANIPULACIÓN POR PARTE DEL USUARIO.

LA GARANTÍA SE ENTIENDE EN NUESTROS TALLERES, SIENDO POR CUENTA DEL USUARIO LOS COSTES DEL TRANSPORTE.

AMV ELECTRONICA



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