



- 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 temp/ Output short / Input reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.



Model Number	Input Volts	Input Amps	Input Voltage Range	Efficiency	Bat. Low Alarm	Bat. Low Shutdown	Fuse
Single OUTPUT							
TS-1000-112F	12 Volts(DC)	100Amps	10.5~15Volts(DC)	88%	11.3±4%	10.5±4%	40Amps*4
TS-1000-124F	24 Volts(DC)	50 Amps	21~30Volts(DC)	89%	22.5±4%	21±4%	40Amps*4
TS-1000-148F	48 Volts(DC)	25 Amps	42~60Volts(DC)	90%	45±4%	42±4%	20Amps*4



1000W True Sine Wave DC-AC Power Inverter

TS-1000 series

INPUT SPECIFICATIONS

No Load Dissipation	≤ 6W @ standby saving mode
Off Mode Current Draw	≤ 1 mAmps
Battery Types	Open & sealed lead Acid
Reverse Polarity	By internal fuse open
Input Voltage Range	See Selection Chart
Efficiency typ. (Note 1)	See Selection Chart
Fuse	See Selection Chart
Bat. Low Alarm	See Selection Chart
Bat. Low Shutdown	See Selection Chart

OUTPUT SPECIFICATIONS

Max Output Power (Typ.)	1150W for 180 S/1500W for 10S / surge power 2000W for 30 cycles
AC Voltage	TS-1000-1xx: Factory setting set @ 110VAC 100/110/115/120VAC select by S.W
Frequency	TS-1000-1xx: 60 0.1Hz 50/60Hz select by 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
Over Current Protection	105~115% for 180S, 115~150% for 10S Shutdown o/p voltage, re-power
Over Temperature Protection	TS-1000-1xx:: 90°C±5°C Shutdown o/p voltage, repower after cool down; by internal RTH3 detect on heatsink of power diode
Output Short	Shutdown o/p voltage, repower
GFCI Protection	Only type F

GENERAL SPECIFICATIONS

Safety TS-1000-112/124 Only	UL458 (only "GFCI" receptacles-types F)
Insulation Resistance	AC O/P-FG, Bat I/P-FG: 100MΩ/500VDC/25°C/70% RH
EMI	TS-1000-1xx: Compliance to FCC class A
Isolation	3000VAC Bat I/P - AC O/P 1500VACAC O/P - FG

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0°C to +40°C @ 100% load 60°C @ 50% load
Storage Temperature	-30°C ~ +70°C /-22~+158°F 10~95% RH
Relative Humidity	20 to +90% RH non cond
Vibration	10~500Hz, 3G10min./1cycle, period for 60min. each along X, Y, Z axes
Cooling	Loading controlled cooling fan for GFCI receptacle-type F Thermostatically controlled cooling fan for others

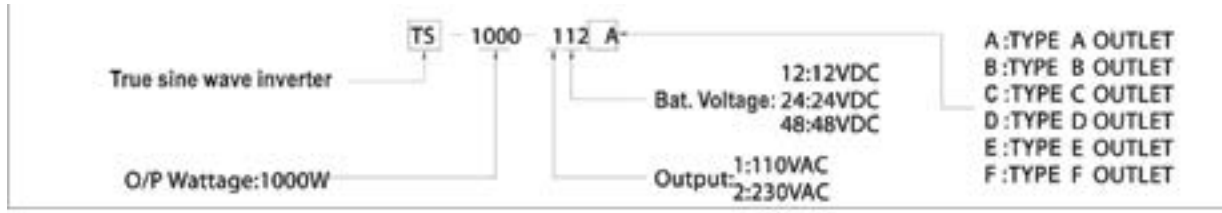
PHYSICAL SPECIFICATIONS

Size	Millimeters	345 x 184 x 70
	Inches	13.58" x 7.24" x 2.76"
Weight		151.68 oz (4300g)

NOTE

1. Efficiency is tested by 750W, linear load at 13V, 26V, 52V input voltage.

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted



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	FC	E1 CE	E1 CE	E1 CE	FC	FC

Mechanical Specification

