



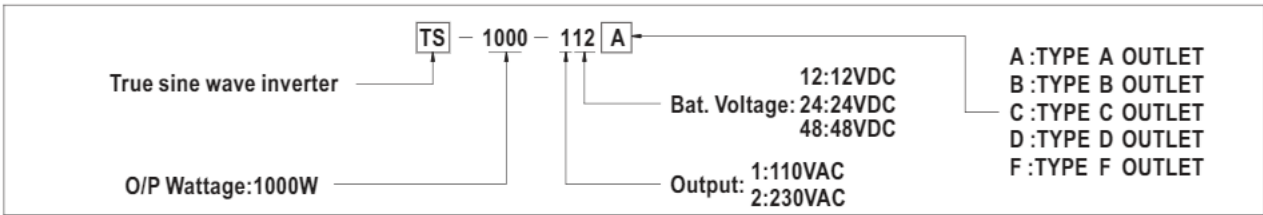
■ Features :

- 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

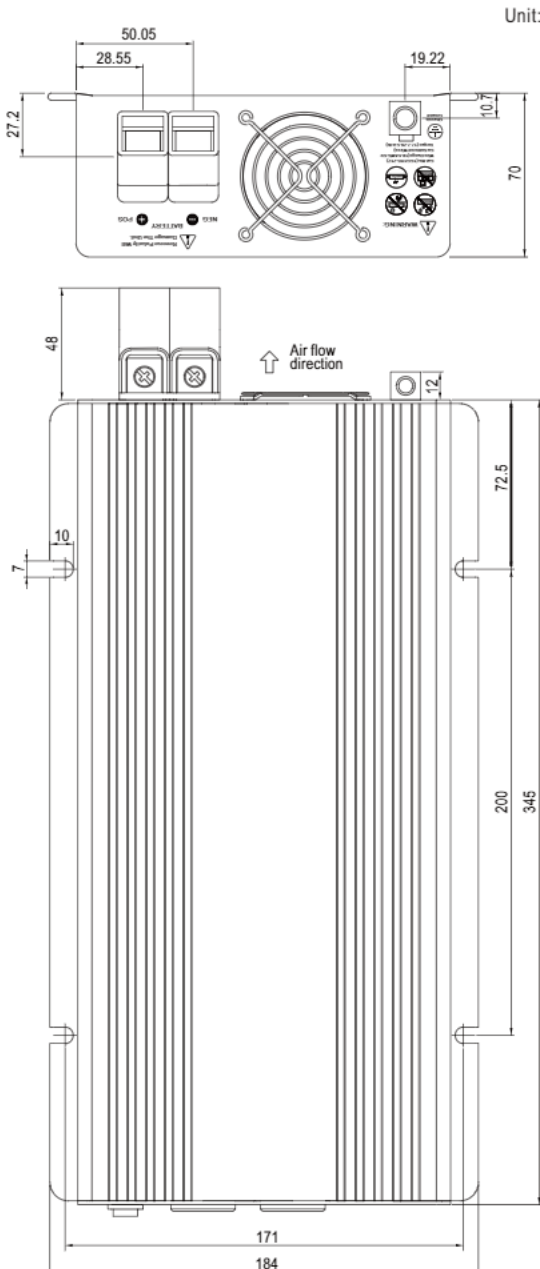
| MODEL NO. | TS-1000-112□ | TS-1000-124□ | TS-1000-148□ | TS-1000-212□ | TS-1000-224□ | TS-1000-248□ | | |
|---|---|--------------|--------------|--|--------------|--------------|------------|------------|
| | □ = A, F | | | □ = B, C, D | | | | |
| OUTPUT | RATED POWER (Typ.) 1000W | | | | | | | |
| | MAXIMUM OUTPUT POWER (Typ.) 1150W for 180 sec. / 1500W for 10 sec. / surge power 2000W for 30 cycles | | | | | | | |
| | AC VOLTAGE | | | 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 | | | FREQUENCY | | | | |
| | 60±0.1Hz 50/60Hz selectable by setting button S.W | | | 50±0.1Hz 50/60Hz selectable by setting button S.W | | | | |
| WAVEFORM <small>Note.6</small> 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.) <small>Note.4,6</small> | | 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.) <small>Note.1</small> | | 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 | | | 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. <small>Note.3</small> 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 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°C/ 70% RH | | | | | | | |
| | EMC EMISSION | | | 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°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 | <p>1.Efficiency is tested by 750W, linear load at 13V, 26V, 52V input voltage.</p> <p>2.All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.</p> <p>3.Output derating capacity referenced by curve 1.</p> <p>4.Input derating capacity referenced by curve 2.</p> <p>5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V</p> <p>6.TH.D is tested by 1000W, linear load at 13,26,52V input voltage.</p> <p>7.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> | | | | | | | |



AC Output Socket (optional)

| MODEL NO. | TS-1000-112 <input type="checkbox"/> | TS-1000-124 <input type="checkbox"/> | TS-1000-148 <input type="checkbox"/> | TS-1000-212 <input type="checkbox"/> | TS-1000-224 <input type="checkbox"/> | TS-1000-248 <input type="checkbox"/> |
|-------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 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

