



3000W True Sine Wave DC-AC Inverter

TS-3000 series



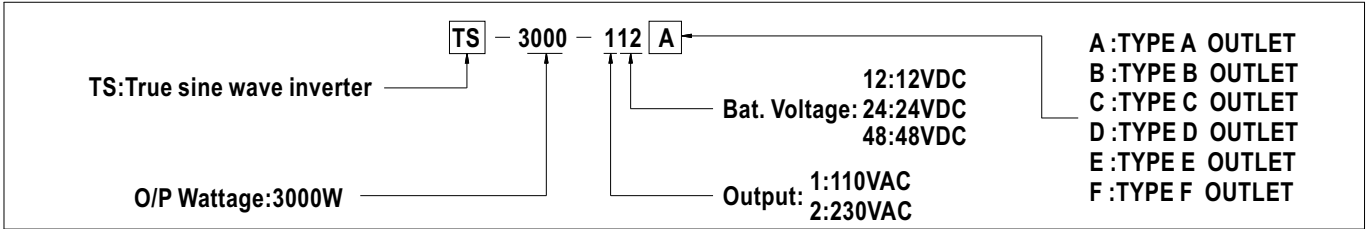
■ Features :

- True sine wave output (THD<3%)
- High surge power up to 6000W
- High efficiency up to 92%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload / AC circuit breaker
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Optional monitoring software and connection cable (MW order No.: DS-TN-1500)
- 3 years warranty



SPECIFICATION

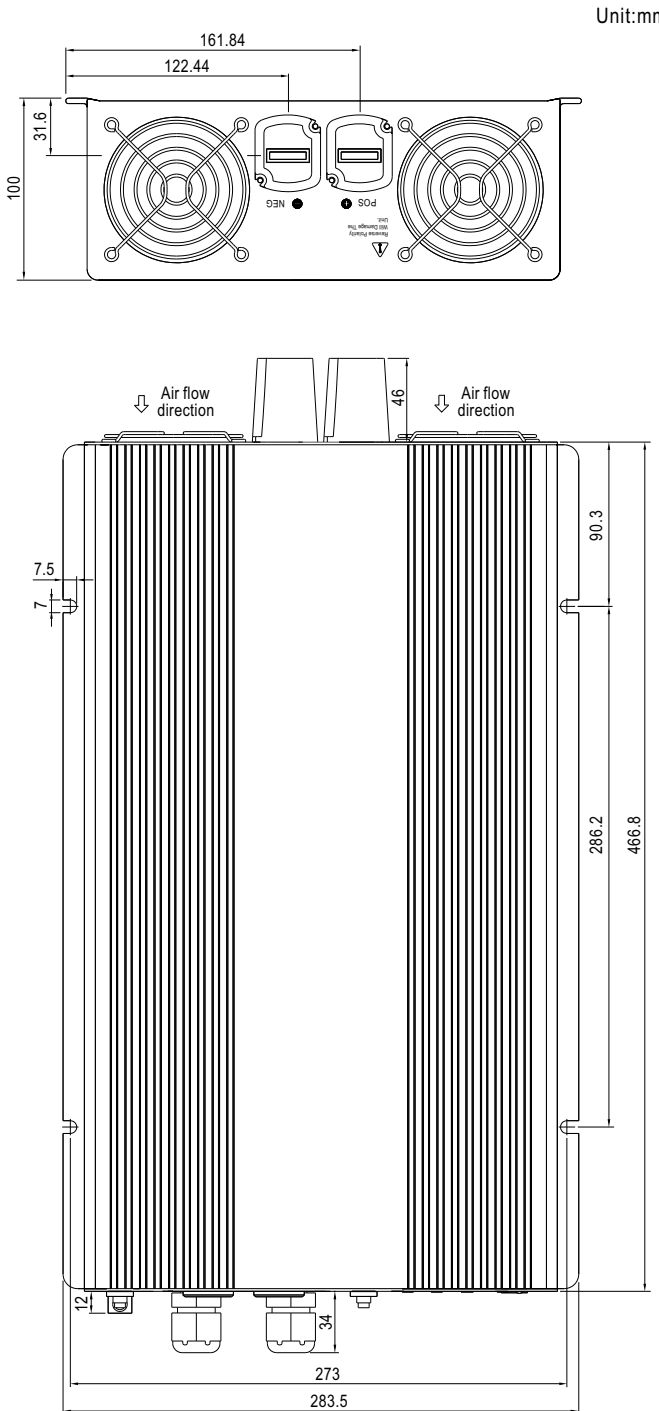
| MODEL | TS-3000-112 | TS-3000-124 | TS-3000-148 | TS-3000-212 | TS-3000-224 | TS-3000-248 |
|---|---|--------------------------|-------------------------------|---|-------------------------------|-------------|
| OUTPUT | RATED POWER (Typ.) 3000W | | | | | |
| | MAXIMUM OUTPUT POWER (Typ.) 3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W 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 60±0.1Hz 50/60Hz selectable by setting button S.W | | | | | |
| | 50±0.1Hz 50/60Hz selectable by setting button S.W | | | | | |
| | WAVEFORM True sine wave (THD<3%) at rated input voltage | | | | | |
| AC REGULATION (Typ.) ±3% | | | | | | |
| 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 | | BAT. VOLTAGE | | BAT. VOLTAGE | |
| | 12V | | 24V | | 48V | |
| | VOLTAGE RANGE (Typ.) Note.3,6 | | VOLTAGE RANGE (Typ.) Note.3,6 | | VOLTAGE RANGE (Typ.) Note.3,6 | |
| | 10.5 ~ 15VDC | | 21 ~ 30VDC | | 42 ~ 60VDC | |
| | DC CURRENT (Typ.) Note.4 | | DC CURRENT (Typ.) Note.4 | | DC CURRENT (Typ.) Note.4 | |
| | 300A | | 150A | | 75A | |
| | NO LOAD DISSIPATION (Typ.) ≤10W @ standby saving mode | | | | | |
| OFF MODE CURRENT DRAW (Typ.) ≤1mA | | | | | | |
| EFFICIENCY (Typ.) Note.1 | | EFFICIENCY (Typ.) Note.1 | | EFFICIENCY (Typ.) Note.1 | | |
| 88% | | 90% | | 91% | | |
| BATTERY TYPES Open & sealed lead acid battery | | | | | | |
| BATTERY INPUT PROTECTION | FUUSE | | FUUSE | | FUUSE | |
| | 40A*12 | | 40A*6 | | 20A*6 | |
| | BAT. LOW ALARM Note.6 | | BAT. LOW ALARM Note.6 | | BAT. LOW ALARM Note.6 | |
| | 11.3V | | 22.5V | | 45V | |
| BAT. LOW SHUTDOWN Note.6 | | BAT. LOW SHUTDOWN Note.6 | | BAT. LOW SHUTDOWN Note.6 | | |
| 10.5V | | 21V | | 42V | | |
| REVERSE POLARITY By internal fuse open | | | | | | |
| OUTPUT PROTECTION | OVER TEMPERATURE | | OVER TEMPERATURE | | OVER TEMPERATURE | |
| | 90°C±5°C | | 85°C±5°C | | 85°C±5°C | |
| | Protection type : Shut down o/p voltage, re-power on to recover | | | | | |
| | 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 | | | | | | |
| CIRCUIT BREAKER AC output receptacle:15A | | | | | | |
| GFCI PROTECTION Optional (Only type F) | | | | None | | |
| ENVIRONMENT | WORKING TEMP. Note.2 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 | | | EN60950-1 | | |
| | WITHSTAND VOLTAGE Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC | | | | | |
| | ISOLATION RESISTANCE Bat I/P - AC O/P, Bat I/P - FG, AC O/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 EN61000-4-2,3,4,5,6,8,11 ENV50204 | | |
| OTHERS | CONTROL WIRING RJ11 -RS232 (Option) | | | | | |
| | DIMENSION 466.8*283.5*100mm (L*W*H) | | | | | |
| | PACKING 12.9Kg; 1pcs/14Kg/1.98CUFT | | | | | |
| NOTE | 1.Efficiency is tested by 2100W, linear load at 13V, 26V, 52V input voltage. 2.Output derating capacity referenced by curve 1. 3.Output derating capacity referenced by curve 2. 4.DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage. 5.All parameters not specified above are measured at rated load, 25°C of ambient temperature. 6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V | | | | | |



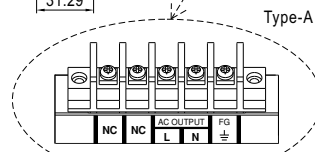
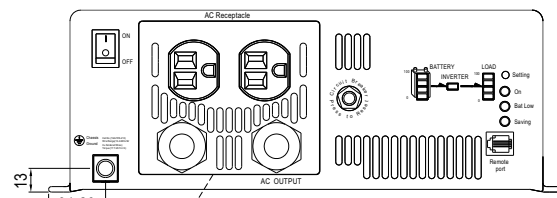
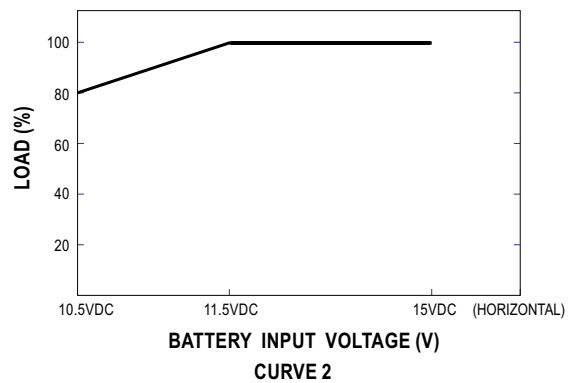
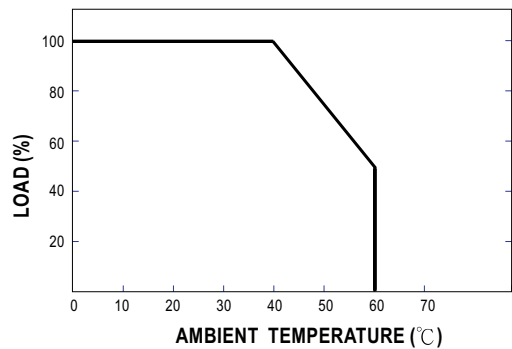
AC Output Receptacle (optional)

| Receptacle type | TYPE-A | TYPE-B | TYPE-C | TYPE-D | TYPE-E | TYPE-F |
|-----------------|--------|--------|-----------|--------|--------|---------------------------------|
| Country | USA | EUROPE | AUSTRALIA | U.K | JAPAN | GFCI |
| Certificate | FC | E13 CE | E13 CE | E13 CE | FC | UL US (Expect for 48V input) FC |

Mechanical Specification



Derating Curve



Note: When the load current is >15A, must use output terminal connection which can be found inside the AC output panel of the inverter.

