



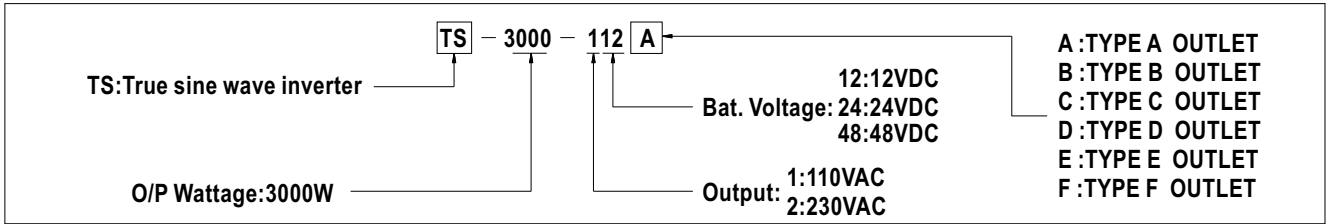
■ Features :

- 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(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 | | Factory setting set at 110VAC 100 / 110 / 115 / 120VAC selectable by setting button S.W | | Factory setting set at 230VAC 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 | | 12V | 24V | 48V | 12V | 24V | 48V |
| | VOLTAGE RANGE (Typ.) Note.3,6 | | 10.5 ~ 15VDC | 21 ~ 30VDC | 42 ~ 60VDC | 10.5 ~ 15VDC | 21 ~ 30VDC | 42 ~ 60VDC |
| | DC CURRENT (Typ.) Note.4 | | 300A | 150A | 75A | 300A | 150A | 75A |
| | NO LOAD DISSIPATION (Typ.) | | ≤ 10W @ standby saving mode | | | | | |
| | OFF MODE CURRENT DRAW (Typ.) | | ≤ 1mA | | | | | |
| | EFFICIENCY (Typ.) Note.1 | | 88% | 90% | 91% | 89% | 91% | 92% |
| | BATTERY TYPES | | Open & sealed lead acid battery | | | | | |
| BATTERY INPUT PROTECTION | FUSE | | 40A*12 | 40A*6 | 20A*6 | 40A*12 | 40A*6 | 20A*6 |
| | BAT. LOW ALARM Note.6 | | 11.3V | 22.5V | 45V | 11.3V | 22.5V | 45V |
| | BAT. LOW SHUTDOWN Note.6 | | 10.5V | 21V | 42V | 10.5V | 21V | 42V |
| | REVERSE POLARITY | | By internal fuse open | | | | | |
| OUTPUT PROTECTION | OVER TEMPERATURE | | 90°C ± 5°C | 85°C ± 5°C | 85°C ± 5°C | 80°C ± 5°C | 75°C ± 5°C | 75°C ± 5°C |
| | 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 | | None | | | | 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 | <p>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</p> | | | | | | | |



AC Output Receptacle (optional)

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

Mechanical Specification

Unit:mm

161.84
122.44
31.6
100
7.5
7
46
90.3
286.2
466.8
273
283.5
34

Derating Curve

CURVE 1

LOAD (%)

AMBIENT TEMPERATURE (°C)

CURVE 2

LOAD (%)

BATTERY INPUT VOLTAGE (V)

10.5VDC 11.5VDC 15VDC (HORIZONTAL)

Type-A

Type-B

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