



#### ■ 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.
- 2 years warranty



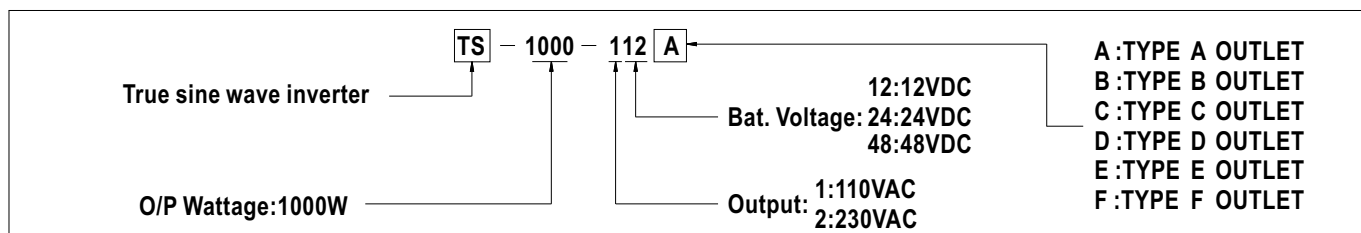
#### SPECIFICATION

| 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<br>100 / 110 / 115 / 120VAC selectable by setting button S.W                          |             |             | Factory setting set at 230VAC<br>200 / 220 / 230 / 240VAC selectable by setting button S.W |             |             |
|                          | FREQUENCY                                                                                                                                                                   | 60±0.1Hz 50/60Hz selectable by setting button S.W                                                                   |             |             | 50±0.1%Hz 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.)                                                                                                                                                        | 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℃ ± 5℃                                                                                                            |             |             | 70℃ ± 5℃                                                                                   |             |             |
|                          | OUTPUT SHORT                                                                                                                                                                | Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH3 detect on heatsink of power diode |             |             |                                                                                            |             |             |
|                          | OVER LOAD (Typ.)                                                                                                                                                            | Protection type : Shut down o/p voltage, re-power on to recover                                                     |             |             |                                                                                            |             |             |
|                          | GFCI PROTECTION                                                                                                                                                             | Optional (Only type F)                                                                                              |             |             | None                                                                                       |             |             |
| ENVIRONMENT              | WORKING TEMP.                                                                                                                                                               | 0 ~ +40℃ @ 100% load ; +60℃ @ 50% load                                                                              |             |             |                                                                                            |             |             |
|                          | WORKING HUMIDITY                                                                                                                                                            | 20% ~ 90% RH non-condensing                                                                                         |             |             |                                                                                            |             |             |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                     | -30 ~ +70℃ / -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" receptacles- type F)   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℃ / 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                                                                                                                                                                | -----                                                                                                               |             |             | Compliance to EN61000-4-2,3,8 ENV50204                                                     |             |             |
| OTHERS                   | 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.<br>2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature. |                                                                                                                     |             |             |                                                                                            |             |             |



# 1000W True Sine Wave DC-AC Power Inverter

# TS-1000 series



## AC Output Receptacles (optional)

|        |        |           |        |        |        |
|--------|--------|-----------|--------|--------|--------|
|        |        |           |        |        |        |
| TYPE-A | TYPE-B | TYPE-C    | TYPE-D | TYPE-E | TYPE-F |
| USA    | EUROPE | AUSTRALIA | U.K    | JAPAN  | GFCI   |

## Mechanical Specification

Unit:mm

