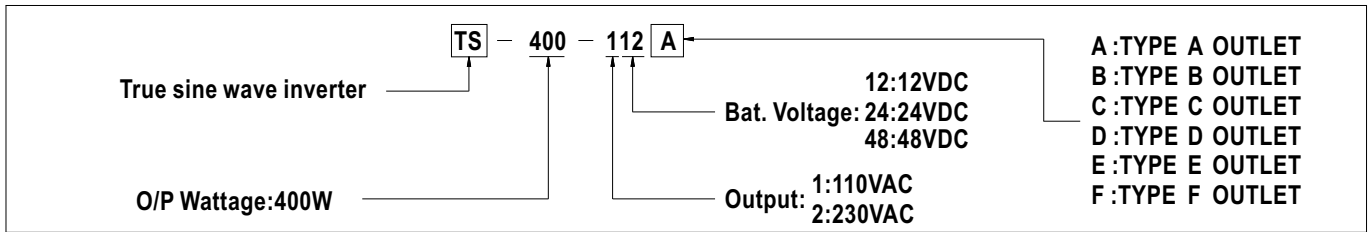


**■ Features :**

- True sine wave output (THD<3%)
- High surge power up to 800W
- High efficiency up to 88.5%
- Thermostatically controlled cooling fan
- Built-in remote ON-OFF control
- Front panel indicator for operation status
- Power ON-OFF switch
- 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**

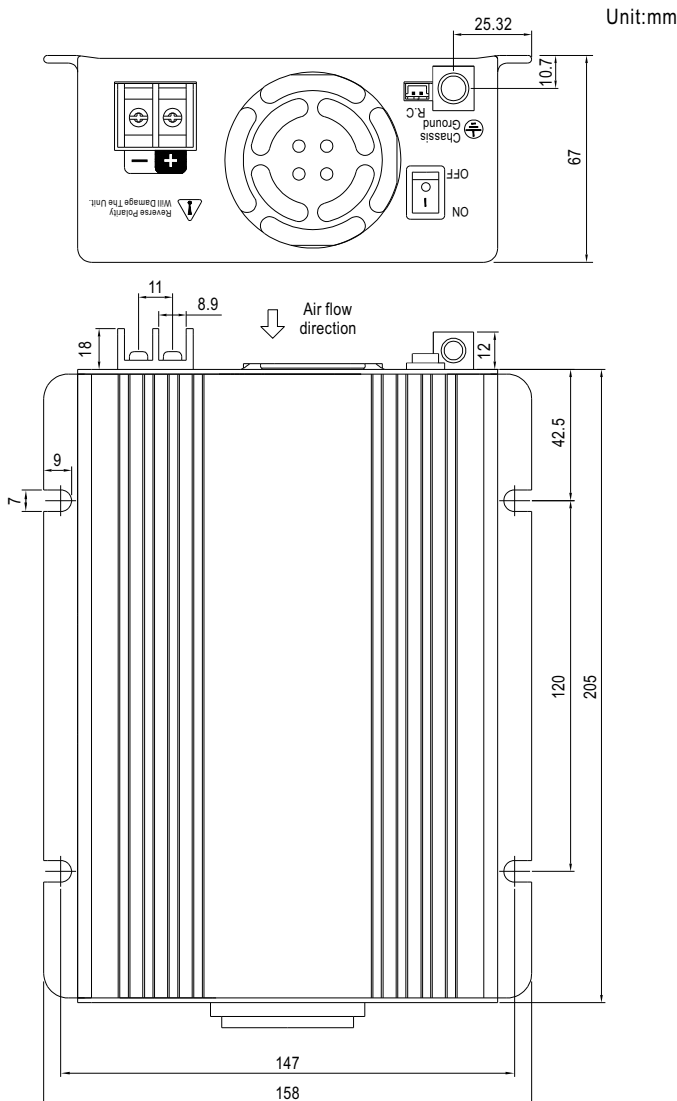
| MODEL                    | TS-400-112□  | TS-400-124□ | TS-400-148□   | TS-400-212□   | TS-400-224□ | TS-400-248□  |   |            |
|--------------------------|--|-------------|---|---|-------------|--|---|------------|
| OUTPUT                   | RATED POWER  |             |   |   |             |  | 400W  |            |
|                          | MAXIMUM OUTPUT POWER   |             |   |   |             |  | 460W for 180 sec. / 600W for 10 sec. / surge power 800W for 30 cycles(typ.) |            |
|                          | 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                               |            |
|                          | WAVEFORM   |             |   |   |             |  | True sine wave (THD<3%) at rated input voltage                              |            |
|                          | AC REGULATION typ.   |             |   |   |             |  | ±3.0%, at rated input voltage   |            |
| FRONT PANEL INDICATOR    |  |             |   |   |             | Operation status ; Green : normal, Orange(flashing) : remote control OFF, Red : abnormal |   |            |
| 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.)  |             | 40A   | 20A   | 10A         | 40A  | 20A   | 10A        |
|                          | NO LOAD CURRENT DRAW typ.  |             | 1.25A   | 0.63A   | 0.32A       | 1.25A  | 0.63A   | 0.32A      |
|                          | OFF MODE CURRENT DRAW  |             | ≤1mA  |   |             |  |   |            |
|                          | EFFICIENCY (Typ.) Note.1   |             | 84.5%   | 86%   | 87%         | 86%  | 87.5%   | 88.5%      |
|                          | BATTERY TYPES  |             | Open & sealed Lead Acid   |   |             |  |   |            |
| BATTERY INPUT PROTECTION | FUSE   |             | 40A*2   | 40A*1   | 20A*1       | 40A*2  | 40A*1   | 20A*1      |
|                          | 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%      |
|                          | BAT. POLARITY  |             | By internal fuse open   |   |             |  |   |            |
| OUTPUT PROTECTION        | OVER TEMPERATURE   |             | 85°C±5°C  | 75°C±5°C  | 70°C±5°C    | 85°C±5°C   | 75°C±5°C  | 70°C±5°C   |
|                          | OUTPUT SHORT   |             | Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH1 detect power transistor |   |             |  |   |            |
|                          | 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  |            |
| FUNCTION                 | REMOTE CONTROL   |             | Open : Normal work ; Short : Remote off   |   |             |  |   |            |
| ENVIRONMENT              | WORKING TEMP.  |             | -10 ~ +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   |             | Design refer to UL458   |   |             | 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, 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 EN61000-4-2,3,8 ENV50204   |   |            |
| OTHERS                   | DIMENSION  |             | 205*158*67mm (L*W*H)  |   |             |  |   |            |
|                          | PACKING  |             | 1.73Kg; 6pcs/11.4Kg/1.55CUFT  |   |             |  |   |            |
| NOTE                     | 1.Efficiency is tested by 300W, linear load at 12V/24V/48V input voltage.<br>2.All parameters not specified above are measured at rated load, 25°C of ambient temperature. |             |   |   |             |  |   |            |



### 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     |        |        |           |        |        |        |

### Mechanical Specification



### Derating Curve

