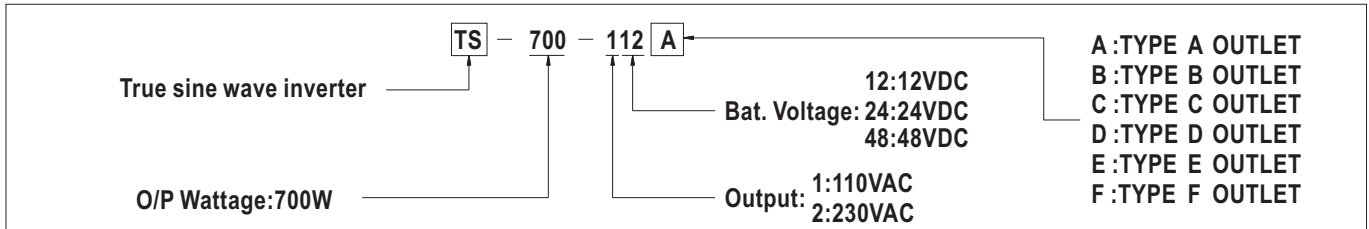



**■ Features :**

- True sine wave output (THD<3%)
- High surge power up to 1400W
- High efficiency up to 91%
- Power ON-OFF switch
- Standby saving mode can be selectable
- 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 / Reverse polarity / Overload
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- 3 years warranty


**SPECIFICATION**

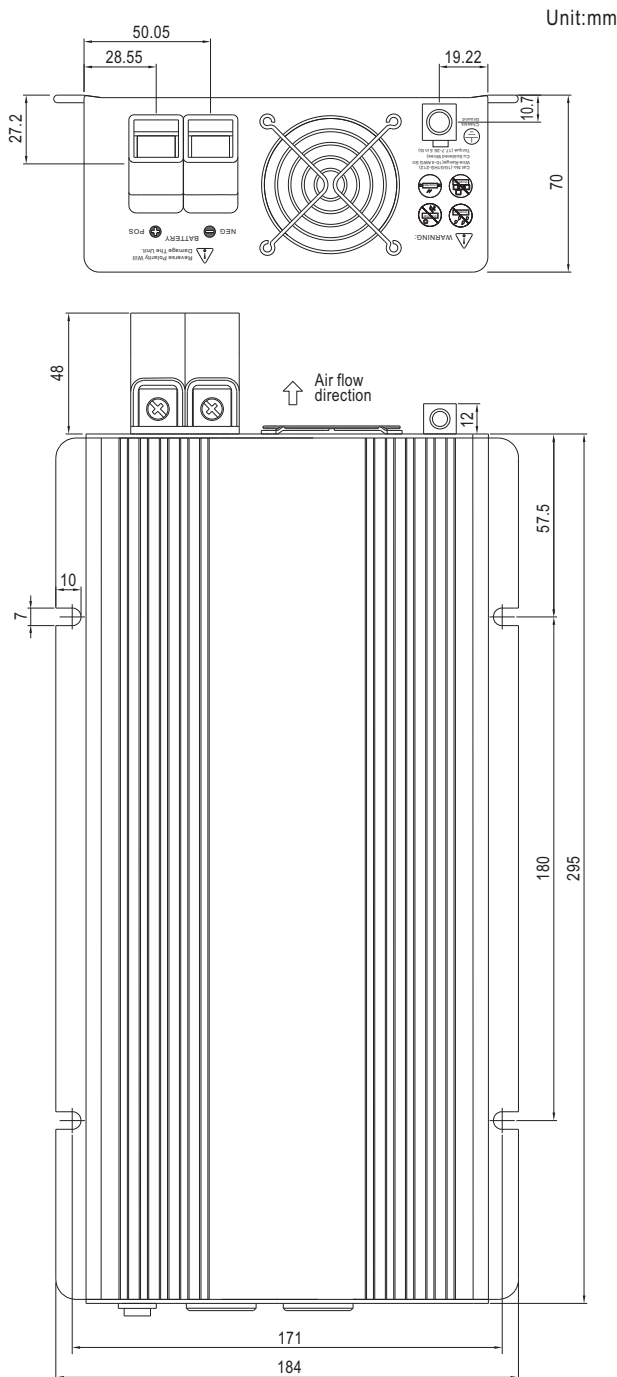
| MODEL                    | TS-700-112□   | TS-700-124□   | TS-700-148□   | TS-700-212□ | TS-700-224□  | TS-700-248□  |            |            |
|--------------------------|---|---|---|-------------|--|--------------|------------|------------|
| OUTPUT                   | RATED POWER (Typ.)  |   | 700W  |             |  |              |            |            |
|                          | MAXIMUM OUTPUT POWER (Typ.)   |   | 800W for 180 sec. / 1050W for 10 sec. / surge power 1400W 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±0.1Hz 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.)  |   | 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.) <sup>Note.3,5</sup>  |   | 10.5 ~ 15VDC  | 21 ~ 30VDC  | 42 ~ 60VDC   | 10.5 ~ 15VDC | 21 ~ 30VDC | 42 ~ 60VDC |
|                          | DC CURRENT (Typ.)   |   | 75A   | 38A         | 19A  | 75A          | 38A        | 19A        |
|                          | NO LOAD DISSIPATION   |   | ≤6W @ standby saving mode   |             |  |              |            |            |
|                          | OFF MODE CURRENT DRAW   |   | ≤1mA  |             |  |              |            |            |
|                          | EFFICIENCY (Typ.) <sup>Note.1</sup>   |   | 86%   | 88%         | 89%  | 89%          | 90%        | 91%        |
| BATTERY TYPES            |   | Open & sealed Lead Acid   |   |             |  |              |            |            |
| BATTERY INPUT PROTECTION | FUUSE   |   | 40A*3   | 30A*2       | 20A*2  | 40A*3        | 30A*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%      |
|                          | BAT. POLARITY   |   | By internal fuse open   |             |  |              |            |            |
| OUTPUT PROTECTION        | OVER TEMPERATURE  |   | 80°C ± 5°C  |             | 75°C ± 5°C   |              |            |            |
|                          | 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.)  |   | 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.  |             |  |              |            |            |
|                          | GFCI PROTECTION   |   | Optional (Only type F)  |             | None   |              |            |            |
| ENVIRONMENT              | WORKING TEMP. <sup>Note.4</sup>   |   | 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  |   | 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  |   | AC O/P-FG , Bat I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH   |             |  |              |            |            |
|                          | EMC EMISSION  |   | Compliance to FCC class A   |             | Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark                            |              |            |            |
|                          | EMC IMMUNITY  |   | None  |             | Compliance to EN61000-4-2,3,8  |              |            |            |
| OTHERS                   | MTBF  |   | 74.4K hrs min. MIL-HDBK-217F (25°C)   |             |  |              |            |            |
|                          | DIMENSION   |   | 295*184*70mm (L*W*H)  |             |  |              |            |            |
|                          | PACKING   |   | 3.8Kg; 2pcs/8.6Kg/1.27CUFT  |             |  |              |            |            |
| NOTE                     | 1.Efficiency is tested by 530W, linear load at 13V, 26V, 52V input voltage.<br>2.All parameters not specified above are measured at rated load, 25°C of ambient temperature.<br>3.Input derating capacity referenced by curve 2.<br>4.Output derating capacity referenced by curve 1.<br>5.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V |   |   |             |  |              |            |            |



■ AC Output Receptacles (optional)

| Receptacle type |           |               |               |               |           |           |
|-----------------|-----------|---------------|---------------|---------------|-----------|-----------|
| Country         | USA       | EUROPE        | AUSTRALIA     | U.K           | JAPAN     | GFCI      |
| Certificate     | <b>FC</b> | <b>E13 CE</b> | <b>E13 CE</b> | <b>E13 CE</b> | <b>FC</b> | <b>FC</b> |

■ Mechanical Specification



■ Derating Curve

