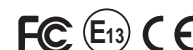




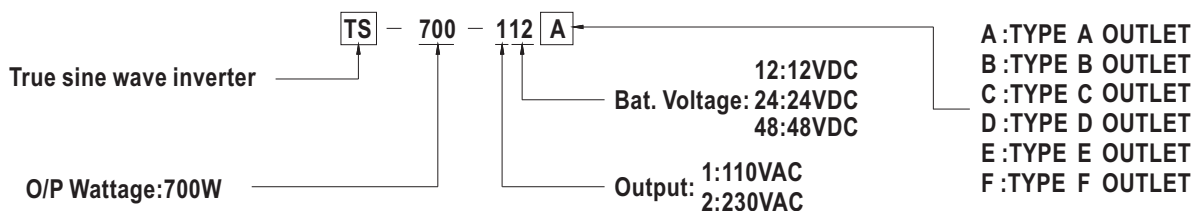
#### ■ Features :

- 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

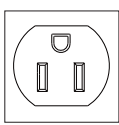
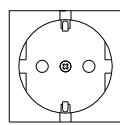
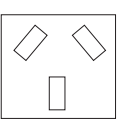
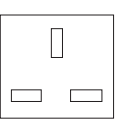
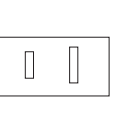
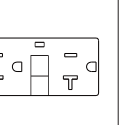


#### SPECIFICATION

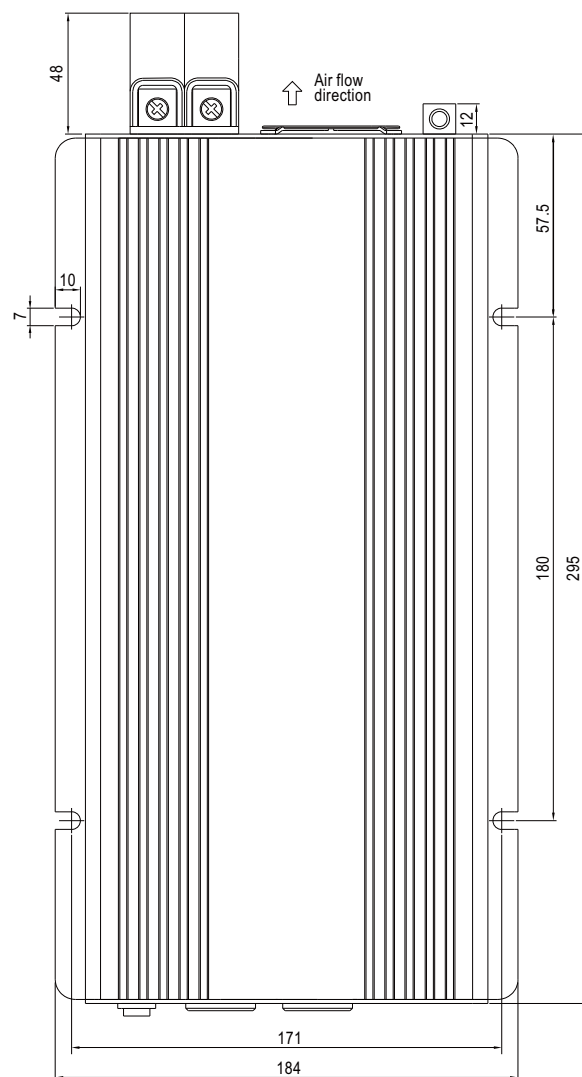
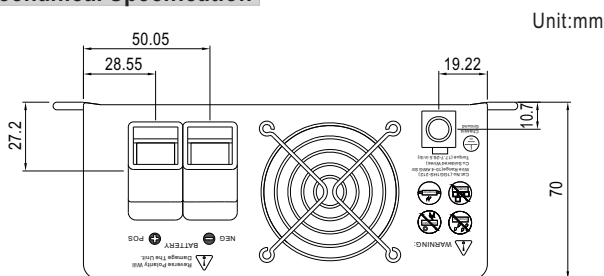
| SPECIFICATION            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |                                        |            |                                                                                            |            |            |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------|--------------------------------------------------------------------------------------------|------------|------------|
| 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%)                                                                                                       |                                        |            |                                                                                            |            |            |
|                          | 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.)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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 (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ≤6W @ standby saving mode                                                                                                     |                                        |            |                                                                                            |            |            |
|                          | OFF MODE CURRENT DRAW                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ≤1mA                                                                                                                          |                                        |            |                                                                                            |            |            |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 86%                                                                                                                           | 88%                                    | 89%        | 89%                                                                                        | 90%        | 91%        |
|                          | BATTERY TYPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Open & sealed Lead Acid                                                                                                       |                                        |            |                                                                                            |            |            |
| BATTERY INPUT PROTECTION | FUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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℃ ± 5℃                                                                                                                      |                                        |            | 75℃ ± 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.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.<br>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 non-condensing                                                                         |                                        |            |                                                                                            |            |            |
| 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℃ / 70% RH                                                                       |                                        |            |                                                                                            |            |            |
|                          | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Compliance to FCC class A                                                                                                     |                                        |            | Compliance to EN55032 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℃)                                                                                            |                                        |            |                                                                                            |            |            |
|                          | 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℃ of ambient temperature and set to factory setting.<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<br>6.THd is tested by 700W, linear load at 13,26,52V input voltage. |                                                                                                                               |                                        |            |                                                                                            |            |            |



### 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     | FC                                                                                | E13 CE                                                                            | E13 CE                                                                            | E13 CE                                                                             | FC                                                                                  | FC                                                                                  |

### Mechanical Specification



### Derating Curve

