



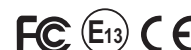
## 200W True Sine Wave DC-AC Power Inverter

## TS-200 series



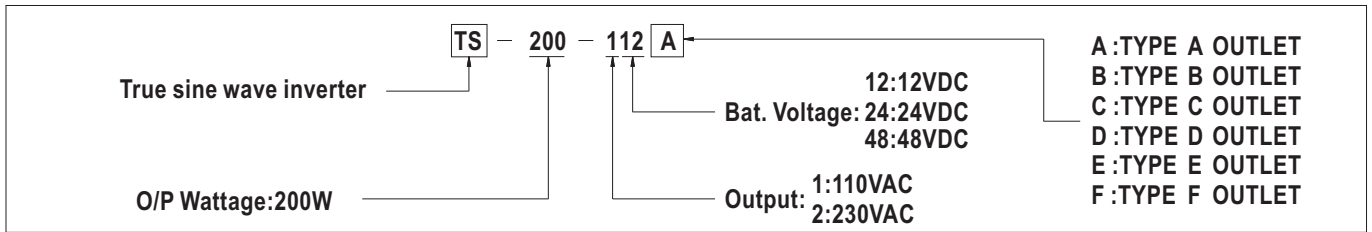
### ■ Features :

- True sine wave output (THD<3%)
- High surge power up to 400W
- High efficiency up to 88%
- Fanless design, cooling by free air convection
- 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.
- 3 years warranty

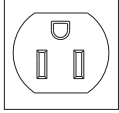
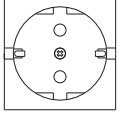
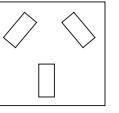
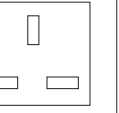
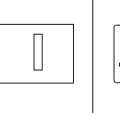
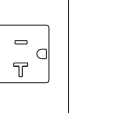


### SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                       | TS-200-112                                                                                                                    | TS-200-124 | TS-200-148 | TS-200-212                                                                                 | TS-200-224 | TS-200-248 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------------------------------------------------------------------------------------|------------|------------|
| OUTPUT                   | RATED POWER                                                                                                                                                                                                                                                                           | 200W                                                                                                                          |            |            |                                                                                            |            |            |
|                          | MAXIMUM OUTPUT POWER                                                                                                                                                                                                                                                                  | 230W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles(typ.)                                                   |            |            |                                                                                            |            |            |
|                          | 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                                                                                 |            |            | 50±0.1Hz 50/60Hz selectable by setting button                                              |            |            |
|                          | WAVEFORM                                                                                                                                                                                                                                                                              | True sine wave (THD<3%) at rated input voltage                                                                                |            |            |                                                                                            |            |            |
|                          | AC REGULATION                                                                                                                                                                                                                                                                         | Note.1 ±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.)                                                                                                                                                                                                                                                                  | Note.3 10.5 ~ 15VDC                                                                                                           | 21 ~ 30VDC | 42 ~ 60VDC | 10.5 ~ 15VDC                                                                               | 21 ~ 30VDC | 42 ~ 60VDC |
|                          | DC CURRENT (Typ.)                                                                                                                                                                                                                                                                     | 20A                                                                                                                           | 10A        | 5A         | 20A                                                                                        | 10A        | 5A         |
|                          | NO LOAD CURRENT DRAW (Typ.)                                                                                                                                                                                                                                                           | 1.25A                                                                                                                         | 0.63A      | 0.32A      | 1.25A                                                                                      | 0.63A      | 0.62A      |
|                          | OFF MODE CURRENT DRAW                                                                                                                                                                                                                                                                 | ≤1mA                                                                                                                          |            |            |                                                                                            |            |            |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                     | Note.1 86%                                                                                                                    | 87.5%      | 88%        | 86%                                                                                        | 87.5%      | 88%        |
|                          | BATTERY TYPES                                                                                                                                                                                                                                                                         | Open & sealed Lead Acid                                                                                                       |            |            |                                                                                            |            |            |
| BATTERY INPUT PROTECTION | FUSE                                                                                                                                                                                                                                                                                  | 30A*2                                                                                                                         | 30A*1      | 15A*1      | 30A*2                                                                                      | 30A*1      | 15A*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℃±5℃                                                                                                                        | 80℃±5℃     | 80℃±5℃     | 85℃±5℃                                                                                     | 80℃±5℃     | 80℃±5℃     |
|                          |                                                                                                                                                                                                                                                                                       | Protection type : Shut down o/p voltage, re-power on to recover; by internal RTH1 detect power transistor                     |            |            |                                                                                            |            |            |
|                          | 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.<br>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 ~ +35℃ @ 100% load ; +60℃ @ 50% load                                                                                      |            |            | -10 ~ +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                                                                                                                                                                                                                                                                      | 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℃ / 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                                                                                                                                                                                                                                                                                  | 106.2K hrs min. MIL-HDBK-217F (25℃)                                                                                           |            |            |                                                                                            |            |            |
|                          | DIMENSION                                                                                                                                                                                                                                                                             | 205*158*59mm (L*W*H)                                                                                                          |            |            |                                                                                            |            |            |
|                          | PACKING                                                                                                                                                                                                                                                                               | 1.63Kg; 6pcs/10.8Kg/1.44CUFT                                                                                                  |            |            |                                                                                            |            |            |
| NOTE                     | 1.Efficiency & AC regulation is tested by 200W, linear load at 13V/26V/52V input voltage.<br>2.All parameters not specified above are measured at rated load, 25℃ of ambient temperature.<br>3.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V |                                                                                                                               |            |            |                                                                                            |            |            |



## AC Output Receptacles (optional)

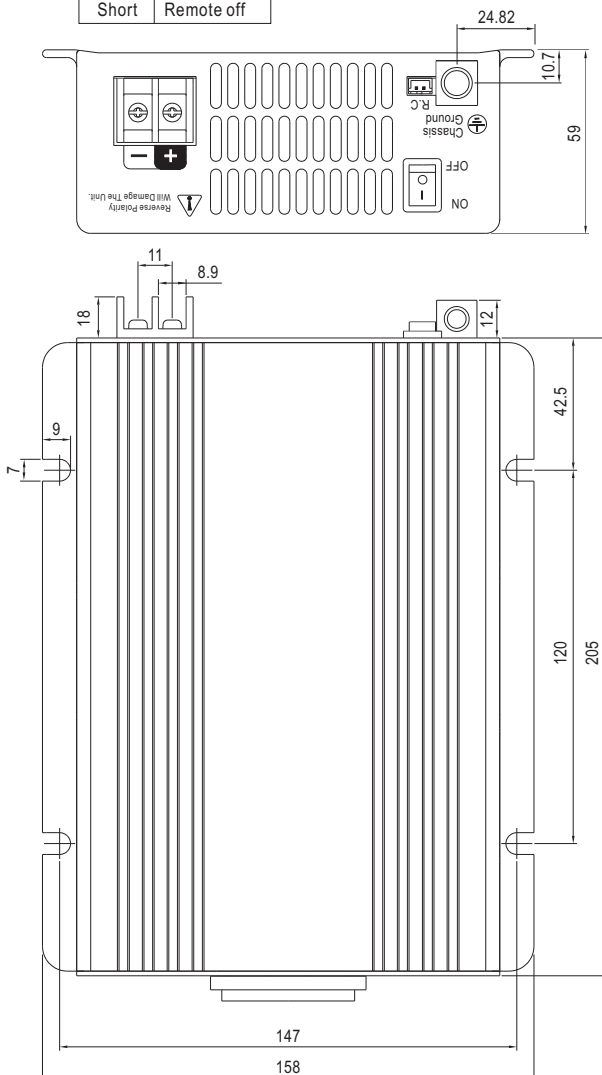
| Receptacle type |  |  |  |  |  |  |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------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

## Mechanical Specification

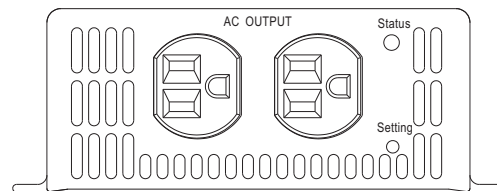
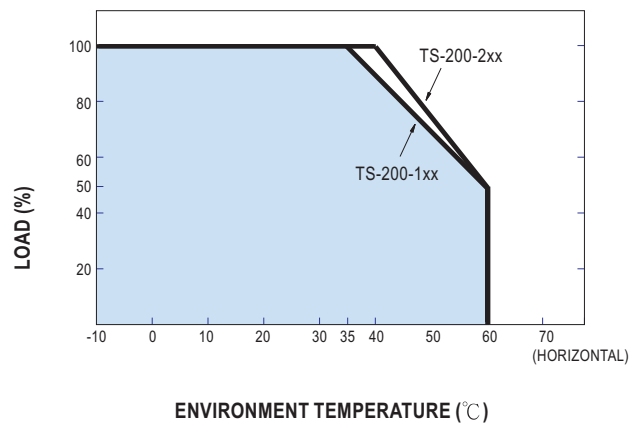
R.C Connector : JST B-XH or equivalent

|       |             |
|-------|-------------|
| Open  | Normal work |
| Short | Remote off  |

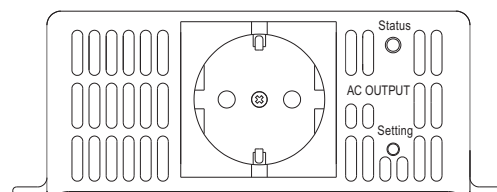
Unit:mm



## Derating Curve



Type-A



Type-B



**Стандарт  
Электрон  
Связь**

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**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331