### Features:
- True sine wave output (THD<3%)
- High surge power up to 400W
- High efficiency up to 88%
- Fanless design, cooling by free air operation
- Built-in remote ON-OFF control
- Front panel indicator for operation status
- Power ON-OFF switch
- Protection: 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

### Specifications

#### Model No.
- **TS-200-112**: A, E, F
- **TS-200-124**: B, C, D

### Output

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Rated Power</th>
<th>Maximum Output Power</th>
<th>AC Voltage</th>
<th>Frequency</th>
<th>Waveform</th>
<th>AC Regulation</th>
<th>Front Panel Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS-200-112</td>
<td>200W</td>
<td>230W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
</tr>
<tr>
<td>TS-200-124</td>
<td>240W</td>
<td>260W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
</tr>
<tr>
<td>TS-200-148</td>
<td>260W</td>
<td>280W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
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<tr>
<td>TS-200-212</td>
<td>300W</td>
<td>320W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
</tr>
<tr>
<td>TS-200-224</td>
<td>320W</td>
<td>340W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
</tr>
<tr>
<td>TS-200-248</td>
<td>340W</td>
<td>360W for 180 sec. / 300W for 10 sec. / surge power 400W for 30 cycles (typ.)</td>
<td>12V, 24V, 48V</td>
<td>60±0.1Hz / 50/60Hz selectable by setting button</td>
<td>True sine wave (THD&lt;3%)</td>
<td>±3.0% at rated input voltage</td>
<td>Operation status: Green: normal, Orange (flashing): remote control OFF, Red: abnormal</td>
</tr>
</tbody>
</table>

### Battery Input Protection
- Fuse: 30A*2
- Low Alarm: 11.3 ± 4.4%
- Low Shutdown: 10.5 ± 4.4%
- Polarity: Open & sealed Lead Acid

### Battery Output Protection
- Over Temperature: 85°C ± 5°C
- Over Load (Typ.): 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.
- GFCI Protection: Optional (Only type F)

### Environment
- Working Temp.: -10~+40°C @ 100% load, +60°C @ 50% load
- Humidity: 20% ~ 90% RH non-condensing
- Storage Temp., Humidity: -30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH non-condensing
- Vibration: 10 ~ 500Hz, 3G 10 min./cycle, 60min. each along X, Y, Z axes

### Safety & EMC
- Safety Standards: EAC TP TC 004
- LVD: None
- Withstand Voltage: Bat. I/P - AC O/P: 3.0KVAC
- Emission: Compliance to FCC class A, EU CE Mark, E Mark, EAC TP TC 020
- Immunity: Compliance to EAC TP TC 020
- MTBF: 106.2K hrs min.
- Dimensions: 205*158*59mm
- Packing: 1.63kg x 6pcs/10.8kg/144CUFT

**Note:**
1. Efficiency, AC regulation and THD are tested by 200W, linear load at 13V/26V/52V input voltage.
2. All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.
3. The tolerance of each voltage value by models is: ±112/212 → ±0.5V/124/224 → +114/248 → ±142 → ±12V.
4. The ambient temperature derating of 3.5%/1000m with tankless models and of 5%/1000m with fan models for operating altitude higher than 2000m(6500ft).
### Mechanical Specification

R.G Connector: JST B-XH or equivalent

| Unit:mm | 24.82 | 59 | 8.9 | 11 | 112 |

AC Output Socket (optional)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<td><img src="image3.png" alt="Socket Type C" /></td>
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<td><img src="image6.png" alt="Socket Type F" /></td>
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<table>
<thead>
<tr>
<th>TYPE-A</th>
<th>TYPE-E</th>
<th>TYPE-F</th>
<th>TYPE-B</th>
<th>TYPE-C</th>
<th>TYPE-D</th>
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<tbody>
<tr>
<td>Standard</td>
<td>Optional</td>
<td>Optional</td>
<td>Standard</td>
<td>Optional</td>
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<table>
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<th>EUROPE</th>
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<td><img src="image11.png" alt="CE" /></td>
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</tbody>
</table>

### Derating Curve

**LOAD (%)**

**ENVIRONMENT TEMPERATURE (°C)**

Type-A

Type-B