### Specification

**MODEL NO.**

<table>
<thead>
<tr>
<th>TS-400-112</th>
<th>TS-400-124</th>
<th>TS-400-148</th>
<th>TS-400-212</th>
<th>TS-400-224</th>
<th>TS-400-248</th>
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#### Output Power

- **Rated Power:** 400W
- **Maximum Output Power:** 460W for 180 sec. / 600W for 10 sec. / surge power 800W for 30 cycles (typ.)

#### AC Voltage

- **Voltage Range (Typ.):** 10.5 ~ 15VDC (10.5 ~ 15VDC selectable by setting button S.W)
- **DC Current (Typ.):** 40A
- **No Load Current Draw (Typ.):** 1.25A
- **Output Short Current Draw (Typ.):** ≤ 1mA

#### Efficiency (Typ. Note 2)

- **Open & Sealed Lead Acid:** 84.5%
- **86%**
- **97%**
- **86%**
- **87.5%**
- **88.5%**

#### Battery Types

- **FUSE:** 40A*2, 40A*1, 20A*2, 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:** Internal fuse open

#### 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**

#### Protection

- **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.)

- **Protection type:** Shut down o/p voltage, re-power on to recover

#### GFCI Protection

- **Optional (Only type F):** None

#### Remote Control

- **Open:** Normal work
- **Short:** Remote off

#### Working Temp.

- **-10 ~ +40°C@100% load:** -10 ~ +40°C @ 100% load ; -60°C @ 50% load

#### Working Humidity

- **20% ~ 90% RH non-condensing

#### Storage Temp., Humidity

- **-30 ~ +70°C / -22 ~ +115°F:** 10 ~ 95% RH non-condensing

#### Vibration

- **10 ~ 500Hz:** 3G 10min./cycle, 60min. each along X, Y, Z axes

#### Safety Standards

- **EAC TP TC 004, Design refer to UL458:** EAC TP TC 004
- **EN60950-1:** None

#### Withstand Voltage

- **جلس:** Bat. I/P - AC O/P: 3.0KVAC, AC O/P-FG:1.5KVAC

#### EMC Emission

- **Compliance to FCC class A, EAC TP TC 020:** Compliance to EN55032 class A, 72/245/CEE, 95/54/CE, E-Mark, EAC TP TC 020

#### EMI Immunity

- **Compliance to EAC TP TC 020:** Compliance to EN55020-4-2, 3, 8, EAC TP TC 020

#### MTBF

- **104.7K hrs min.**

#### Dimensions

- **205*158*67mm (L*W*H):** 205*158*67mm (L*W*H)

#### Weight

- **1.73Kg:** 6pcs/11.4Kg/1.5CUFT

#### Notes

1. Efficiency is tested by 300W, linear load at 13/26V/52V input voltage.
2. AC regulation and THD are tested by 400W, linear load at 13/26V/52V input voltage.
3. The tolerance of each voltage by models is: 112/212 → 10.5V/124/234 → ±1% /148/248 → ±2V
4. All parameters not specified above are measured at rated load, 25°C of ambient temperature and set to factory setting.
5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m/6500ft.
**TS-400 series**

**Mechanical Specification**

- **R.C Connector:** JST B-XH or equivalent
- **Air flow direction:**
- **Environment Temperature (°C):**
  - **Derating Curve:**

**AC Output Socket (optional)**

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<tbody>
<tr>
<td>Socket type</td>
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<td>TYPE-D</td>
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**AC Output**: 12:12VDC 24:24VDC 48:48VDC

**Bat. Voltage**: 1:110VAC 2:230VAC

**O/P Wattage**: 400W

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