### 1000W Single Output Power Supply

**SE-1000 series**

- **Features:**
  - AC input active surge current limiting
  - AC input range selected by switch
  - Protections: Short circuit / Overload / Over voltage / Over temperature
  - Forced air cooling by built-in DC ball bearing fan
  - High power density 7.3w/inch³
  - With DC_OK signal output
  - Built-in remote ON-OFF control
  - Built-in remote sense function
  - UL / CUL approved
  - Low cost
  - 2 years warranty

### SPECIFICATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RATED POWER</th>
<th>OUTPUT VOLTAGE ADJ. RANGE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE TIME</th>
<th>HOLD UP TIME (Typ.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-1000-5</td>
<td>5V</td>
<td>150A</td>
<td>0 ~ 150A</td>
<td>750W</td>
<td>3.3 ~ 5.5V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>1500ms</td>
<td>20ms/230VAC</td>
</tr>
<tr>
<td>SE-1000-9</td>
<td>9V</td>
<td>100A</td>
<td>0 ~ 100A</td>
<td>900W</td>
<td>7.5 ~ 10V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>1500ms</td>
<td>15ms/115VAC</td>
</tr>
<tr>
<td>SE-1000-12</td>
<td>12V</td>
<td>83.3A</td>
<td>0 ~ 83.3A</td>
<td>999.6W</td>
<td>10 ~ 13.5V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>200ms/115VAC</td>
<td>1500ms/50ms/230VAC</td>
</tr>
<tr>
<td>SE-1000-15</td>
<td>24V</td>
<td>66.7A</td>
<td>0 ~ 66.7A</td>
<td>1000.5W</td>
<td>13.5 ~ 16.5V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>200ms/115VAC</td>
<td>1500ms/50ms/115VAC</td>
</tr>
<tr>
<td>SE-1000-24</td>
<td>48V</td>
<td>41.7A</td>
<td>0 ~ 41.7A</td>
<td>1000.8W</td>
<td>22 ~ 27.5V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>200ms/115VAC</td>
<td>1500ms/50ms/115VAC</td>
</tr>
<tr>
<td>SE-1000-48</td>
<td>48V</td>
<td>20.8A</td>
<td>0 ~ 20.8A</td>
<td>998.4W</td>
<td>43 ~ 56V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>200ms/115VAC</td>
<td>1500ms/50ms/115VAC</td>
</tr>
</tbody>
</table>

### INPUT

- **VOLTAGE RANGE:** 90 ~ 132VAC / 180 ~ 264VAC selected by TB2, 254 ~ 370VDC
- **EFFICIENCY (Typ.):** 81%
- **AC CURRENT (Typ.):** 17.5A/115VAC, 10A/230VAC
- **INRUSH CURRENT (Typ.):** 35A/115VAC, 55A/230VAC
- **LEAKAGE CURRENT:** <2.5mA/240VAC

### PROTECTION

- **OVERLOAD:** 105 ~ 125% rated output power
- **OVER VOLTAGE:** 5.75 ~ 6.75V, 10 ~ 12.2V, 13.8 ~ 16.2V, 18 ~ 21V, 28 ~ 32.4V, 57.6 ~ 67.2V
- **OVER TEMPERATURE:** 70°C ± 5°C (TSW1) detect on heatsink of power transistor

### FUNCTION

- **DC_OK SIGNAL:** PSU turn on: 3.3V ~ 5.6V, PUS turn off: 0 ~ 1V
- **REMOTE CONTROL:** RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off

### ENVIRONMENT

- **WORKING TEMP.:** -20 ~ +60°C (Refer to "Derating Curve")
- **WORKING HUMIDITY:** 20 ~ 90% RH non-condensing
- **STORAGE TEMP., HUMIDITY:** -40 ~ +85°C, 10 ~ 95% RH
- **TEMP. COEFFICIENT:** ±0.05%/°C (0 ~ 50°C)
- **VIBRATION:** 10 ~ 50Hz, 2G, 10min/1cycle, 60min. each along X, Y, Z axes

### SAFETY

- **SAFETY STANDARDS:** UL60950-1 approved
- **WITHSTAND VOLTAGE:** 1/P-O/P: 3kVAC, 1/P-FG: 2kVAC, O/P-F-G: 0.5kVAC
- **ISOLATION RESISTANCE:** 1/P-O/P, 1/P-FG, O/P-F-G: 100M Ohms / 500VDC / 25°C / 70% RH
- **MTBF:** 251.6K hrs min., MIL-HDBK-217F (25°C)
- **DIMENSION:** 278*127*63.5mm (L"W"H)
- **PACKING:** 2.5Kg, 6pcs/18Kg/1.38CUFT

### PACKING

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair wire terminated with a 0.1uf and 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. By using UVP circuit, PSU will not turn on directly in AC continue ON/OFF condition within 5 sec.

**File Name:** SE-1000-SPEC 2013-10-01
Mechanical Specification

DC_OK Signal
DC_OK Signal is the voltage difference between "DC_OK" and "G" pin output
DC_OK Signal is a TTL level signal
PSU turn on: 3.3 ~ 5.6V
PSU turn off: 0 ~ 1V

Remote Sensing

Remote Control

Between RC+ and RC- | Output
---|---
SW OFF(0 ~ 0.8V) | ON
SW ON(4 ~ 10V) | OFF