### SPECIFICATION

**MODEL**
<table>
<thead>
<tr>
<th>DC VOLTAGE</th>
<th>SP-240-5</th>
<th>SP-240-7.5</th>
<th>SP-240-12</th>
<th>SP-240-15</th>
<th>SP-240-24</th>
<th>SP-240-30</th>
<th>SP-240-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>5V</td>
<td>7.5V</td>
<td>12V</td>
<td>15V</td>
<td>24V</td>
<td>30V</td>
<td>48V</td>
<td></td>
</tr>
<tr>
<td>RATED CURRENT</td>
<td>45A</td>
<td>32A</td>
<td>20A</td>
<td>16A</td>
<td>10A</td>
<td>8A</td>
<td>5A</td>
</tr>
<tr>
<td>CURRENT RANGE</td>
<td>0 ~ 45A</td>
<td>0 ~ 32A</td>
<td>0 ~ 20A</td>
<td>0 ~ 16A</td>
<td>0 ~ 10A</td>
<td>0 ~ 8A</td>
<td>0 ~ 5A</td>
</tr>
<tr>
<td>RATED POWER</td>
<td>225W</td>
<td>240W</td>
<td>240W</td>
<td>240W</td>
<td>240W</td>
<td>240W</td>
<td></td>
</tr>
<tr>
<td>RIPPLE &amp; NOISE (max.) Note.2</td>
<td>150mVp-p</td>
<td>150mVp-p</td>
<td>150mVp-p</td>
<td>150mVp-p</td>
<td>150mVp-p</td>
<td>150mVp-p</td>
<td></td>
</tr>
<tr>
<td>VOLTAGE ADJ. RANGE</td>
<td>4 ~ 6V</td>
<td>6 ~ 9V</td>
<td>10 ~ 14V</td>
<td>12 ~ 18V</td>
<td>20 ~ 28V</td>
<td>27 ~ 33V</td>
<td>41 ~ 56V</td>
</tr>
<tr>
<td>VOLTAGE TOLERANCE Note.3</td>
<td>±2.0%</td>
<td>±2.0%</td>
<td>±1.0%</td>
<td>±1.0%</td>
<td>±1.0%</td>
<td>±1.0%</td>
<td>±1.0%</td>
</tr>
<tr>
<td>LINE REGULATION</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>±0.3%</td>
<td>±0.3%</td>
<td>±0.2%</td>
<td>±0.2%</td>
<td>±0.2%</td>
</tr>
<tr>
<td>LOAD REGULATION</td>
<td>±1.0%</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
</tbody>
</table>

**OUTPUT SETUP, RISE TIME**
- 800ms, 50ms/230VAC
- 1500ms, 50ms/115VAC at full load

**INPUT HOLD UP TIME (Typ.)**
- 20ms/230VAC
- 20ms/115VAC at full load

**VOLTAGE RANGE Note.5**
- 86 ~ 264VAC
- 124 ~ 370VDC

**FREQUENCY RANGE**
- 47 ~ 63Hz

**POWER FACTOR (Typ.)**
- PF>0.95/230VAC
- PF>0.98/115VAC at full load

**EFFICIENCY (Typ.)**
- 79%
- 83%
- 86%
- 86%
- 87%
- 88%
- 89%

**AC CURRENT (Typ.)**
- 3.6A/115VAC
- 1.8A/230VAC

**INRUSH CURRENT (Typ.)**
- 25A/115VAC
- 40A/230VAC

**LEAKAGE CURRENT**
- <2mA / 240VAC

**PROTECTION OVERLOAD**
- 105 ~ 135% rated output power
  - Protection type: Hiccup mode, recovers automatically after fault condition is removed

**OVER VOLTAGE**
- 6.3 ~ 7.5V
- 9.4 ~ 10.9V
- 14.7 ~ 17.5V
- 19 ~ 22.5V
- 29.5 ~ 35V
- 34.7 ~ 41V
- 57.6 ~ 67.2V
  - Protection type: Shut down o/p voltage, re-power on to recover

**OVER TEMPERATURE**
- 90°C ~ 125°C (5V,7.5V), 85°C ~ 95°C (12V,15V,24V,30V,48V) (TSW1: detect on heatsink of power transistor)
  - Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

**FUNCTION FAN CONTROL**
- RTH2 ≥ 40°C: FAN ON, ≤ 35°C: FAN OFF (Typ.)

**ENVIRONMENT WORKING TEMP.**
- -20 ~ +70°C (Refer to "Derating Curve")

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

**STORAGE TEMP., HUMIDITY**
- -40 ~ +85°C, 10 ~ 95% RH

**TEMP. COEFFICIENT**
- ±0.03%/°C (0 ~ 50°C)

**VIBRATION**
- 10 ~ 500Hz; 2G 10min./1cycle, 60min. each along X, Y, Z axes

**SAFETY & EMC (Note 4)**

**SAFETY STANDARDS**
- UL60950-1, TUV EN60950-1 approved

**WITHSTAND VOLTAGE**
- I/P-O/P: 3kVAC
- I/P-FG: 1.5kVAC
- O/P-FG: 0.5kVAC

**ISOLATION RESISTANCE**
- I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC / 25°C / 70% RH

**EMC EMISSION**
- Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3

**EMC IMMUNITY**
- Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A

**MTBF**
- 284K hrs min.
- MIL-HDBK-217F (25°C)

**DIMENSION**
- 190*93*50mm (L*W*H)

**Packing**
- 0.8Kg; 18pcs/15.4Kg/1.04CUFT

**NOTE**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load 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 & 47uf of parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Power supply is considered a component which will be installed into a final equipment. The final equipment must be re-certified that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.” (as available on http://www.meanwell.com)
5. Derating may be needed under low input voltages. Please check the derating curve for more details.

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**File Name:** SP-240-SPEC 2011-08-23

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**Features:**
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC Fan
- Built-in fan ON / OFF control
- LED indicator for power on
- Fixed switching frequency at 90KHz
- 3 years warranty