### 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
- Output voltage programmable from 20~110% by 1~5.5VDC external control signal
- Built-in remote ON-OFF control
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 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>RIPPLE &amp; NOISE</th>
<th>VOLTAGE ADJ. RANGE</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE TIME</th>
<th>HOLD UP TIME</th>
<th>OUTPUT VOLTAGE TRIM</th>
<th>OVER TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPV-300-12</td>
<td>12V</td>
<td>25A</td>
<td>0 ~ 25A</td>
<td>300W</td>
<td>150mVp-p</td>
<td>10.8 ~ 13.2V</td>
<td>±1.0%</td>
<td>±0.3%</td>
<td>±0.5%</td>
<td>800ms, 50ms/230VAC</td>
<td>16ms/230VAC</td>
<td>4 ~ 10VDC power off, &lt;0 ~ 0.8VDC power on</td>
<td></td>
</tr>
<tr>
<td>SPV-300-24</td>
<td>24V</td>
<td>12.5A</td>
<td>0 ~ 12.5A</td>
<td>300W</td>
<td>150mVp-p</td>
<td>20 ~ 26.4V</td>
<td>±1.0%</td>
<td>±0.2%</td>
<td>±0.5%</td>
<td>2500ms, 50ms/115VAC at full load</td>
<td>16ms/115VAC at full load</td>
<td>4 ~ 10VDC power off, &lt;0 ~ 0.8VDC power on</td>
<td></td>
</tr>
<tr>
<td>SPV-300-48</td>
<td>48V</td>
<td>6.25A</td>
<td>0 ~ 6.25A</td>
<td>300W</td>
<td>240mVp-p</td>
<td>41 ~ 52.8V</td>
<td>±1.0%</td>
<td>±0.2%</td>
<td>±0.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### EMC

- ISOLATION RESISTANCE: I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH
- EMC EMIS: Compliance to EN55022 (CISPR22) Class B
- EMC IMMUNITY: Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A

### Environment

- WORKING TEMP.: 20 ~ 90% RH non-condensing
- STORAGE TEMP., HUMIDITY: 40 ~ 85℃, 10 ~ 95% RH
- TEMP. COEFFICIENT: ±0.03%/℃ (0 ~ 50℃)

### Others

- MTBF: 207K hrs min.
- DIMENSION: 215*115*50mm (L*W*H)
- PACKING: 1.1Kg; 12pcs/14Kg/0.92CUFT

### Note

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed 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.
300W Single Output with PFC Function

**Mechanical Specification**

- Case No. 912G  Unit:mm

- **Ambient Temperature (°C)**
  - 20
  - 0
  - 10
  - 20
  - 30
  - 40
  - 50
  - 60
  - 70
  - 80
  - 90
  - 100

- **Input Voltage (VAC) 60Hz**
  - 88
  - 95
  - 100
  - 115
  - 135
  - 155
  - 175
  - 195
  - 230
  - 264
  - 300

- **Derating Curve**

- **Static Characteristics**

- **File Name:** SPV-300-SPEC  2014-12-12
1. External Voltage Control

![Diagram showing external voltage control]

- PV
- LOAD
- \(+V\) and \(-V\)
- 1~5.5V

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File Name: SPV-300-SPEC  2014-12-12
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well:

SPV-300-12  SPV-300-24  SPV-300-48