## SPECIFICATION

### OUTPUT

<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 (max.)</th>
<th>VOLTAGE TOLERANCE</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE TIME</th>
<th>HOLD UP TIME (Typ.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPV-100-5</td>
<td>5V</td>
<td>12A</td>
<td>0 ~ 12A</td>
<td>60W</td>
<td>80mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
<tr>
<td>LPV-100-12</td>
<td>12V</td>
<td>8.5A</td>
<td>0 ~ 8.5A</td>
<td>102W</td>
<td>120mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
<tr>
<td>LPV-100-15</td>
<td>15V</td>
<td>6.7A</td>
<td>0 ~ 6.7A</td>
<td>100.5W</td>
<td>120mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
<tr>
<td>LPV-100-24</td>
<td>24V</td>
<td>4.2A</td>
<td>0 ~ 4.2A</td>
<td>100.8W</td>
<td>150mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
<tr>
<td>LPV-100-36</td>
<td>36V</td>
<td>2.8A</td>
<td>0 ~ 2.8A</td>
<td>100.8W</td>
<td>150mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
<tr>
<td>LPV-100-48</td>
<td>48V</td>
<td>2.1A</td>
<td>0 ~ 2.1A</td>
<td>100.8W</td>
<td>150mVp-p</td>
<td>±8.0%</td>
<td>±1.0%</td>
<td>2000ms, 25ms / 230VAC</td>
<td>50ms/230VAC / 14ms/115VAC at full load</td>
</tr>
</tbody>
</table>

### INPUT

<table>
<thead>
<tr>
<th>VOLTAGE RANGE</th>
<th>FREQUENCY RANGE</th>
<th>EFFICIENCY (Typ.)</th>
<th>AC CURRENT</th>
<th>INRUSH CURRENT (Typ.)</th>
<th>MAX. No. of PSUs on 16A</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 ~ 264VAC</td>
<td>47 ~ 63Hz</td>
<td>80%</td>
<td>2.2A/115VAC</td>
<td>COLD START 75A/1ms</td>
<td>2 units (circuit breaker of type B)</td>
</tr>
<tr>
<td>127 ~ 370VDC</td>
<td></td>
<td>85%</td>
<td>1.2A/230VAC</td>
<td></td>
<td>3 units (circuit breaker of type C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>87%</td>
<td>80%</td>
<td></td>
<td>2 units (circuit breaker of type B)</td>
</tr>
</tbody>
</table>

### PROTECTION

<table>
<thead>
<tr>
<th>OVERLOAD</th>
<th>OVER VOLTAGE</th>
<th>PROTECTION</th>
<th>WORKING TEMP</th>
<th>WORKING HUMIDITY</th>
<th>STORAGE TEMP. HUMIDITY</th>
<th>TEMP. COEFFICIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 ~ 150%</td>
<td>5.75 ~ 6.75V</td>
<td>Hiccup mode</td>
<td>-25 ~ +70°C</td>
<td>20 ~ 90% RH</td>
<td>-40 ~ +85°C, 10 ~ 95% RH</td>
<td>±0.3%/°C (0 ~ 50°C)</td>
</tr>
</tbody>
</table>

### ENVIRONMENT

<table>
<thead>
<tr>
<th>VIBRATION</th>
<th>SAFETY STANDARDS</th>
<th>WITHSTAND VOLTAGE</th>
<th>ISOLATION RESISTANCE</th>
<th>EMC EMISSION</th>
<th>EMC IMMUNITY</th>
<th>OTHERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 500Hz, 2G 10min./cycle, period for 60min. each along X, Y, Z axes</td>
<td>UL8750, CSA C22.2 No 250.13-12, UL879, CSA C22.2 No 207-M89, IP67 approved. Design refer to EN60950-1</td>
<td>U/P-O/P: 3KVAC</td>
<td>U/P-O/P &gt; 100M Ohms / 500VDC / 25°C / 70% RH</td>
<td>Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A (= 80% load), EN61000-3-3</td>
<td>Compliance to EN61000-4-2,4,5,6,8,11; EN55024, light industry level, criteria A</td>
<td>MTBF 703Khrs min. MIL-HDBK-217F (25°C)</td>
</tr>
<tr>
<td>DIMENSION</td>
<td>PACKING</td>
<td>NOTE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190<em>52</em>37mm (L<em>W</em>H)</td>
<td>0.63Kg.20pcs/13.6Kg/0.55CUFT</td>
<td>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
100W Single Output Switching Power Supply

**LPV-100 series**

### Mechanical Specification

- **File Name:** LPV-100-SPEC   2016-01-11
- **fosc:** 65KHz
- **PWM**
- **O.L.P.**
- **EMI FILTER**
- **RECTIFIERS**
- **POWER SWITCHING**
- **FILTER**
- **RECTIFIERS +V**
- **-VI/P**
- **CONTROL**

#### Block Diagram

- **EMI FILTER & RECTIFIERS**
- **POWER SWITCHING**
- **RECTIFIERS & FILTER**
- **PWM CONTROL**
- **DETECTION CIRCUIT**
- **O.V.P.**

#### Derating Curve

- **LOAD (%)**
- **AMBIENT TEMPERATURE (°C)**

#### Static Characteristics

- **LOAD (%)**
- **INPUT VOLTAGE (V) 60Hz**

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**Case No. LPC-100A**

**Unit:mm**

**+V (Red)**

**-V (Black)**

**Tc: Max. Case Temperature.**

**AC/N (Blue)**

**AC/L (Brown)**

**UL 1015 18AWG**

**UL 1015 14AWG**

**Case No. LPC-100A**

**Unit:mm**

**5V, 12V**

**Others**

**5V, 12V**

**AMBIENT TEMPERATURE (°C)**

**LOAD (%)**

**INPUT VOLTAGE (V) 60Hz**

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**File Name:** LPV-100-SPEC   2016-01-11

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**NOTE:**

- T case: Max. Case Temperature.