## 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 ADJ. RANGE</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE TIME</th>
<th>HOLD TIME (Typ.)</th>
<th>PACKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-35-3.3</td>
<td>3.3V</td>
<td>7A</td>
<td>0 ~ 7A</td>
<td>23.1W</td>
<td>80mVp-p</td>
<td>2.9V ~ 3.6V</td>
<td>±3.0%</td>
<td>±0.5%</td>
<td>±2.0%</td>
<td>500ms, 30ms/230VAC</td>
<td>80ms/230VAC</td>
<td>0.3Kg; 45pcs/14Kg/0.83CUFT</td>
</tr>
<tr>
<td>RS-35-5</td>
<td>5V</td>
<td>7A</td>
<td>0 ~ 7A</td>
<td>35W</td>
<td>80mVp-p</td>
<td>4.5 ~ 5.6V</td>
<td>±2.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td>1200ms, 30ms/115VAC at full load</td>
<td>15ms/115VAC</td>
<td>99<em>82</em>36mm (L<em>W</em>H)</td>
</tr>
<tr>
<td>RS-35-12</td>
<td>12V</td>
<td>3A</td>
<td>0 ~ 3A</td>
<td>36W</td>
<td>120mVp-p</td>
<td>10.8 ~ 13.2V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS-35-15</td>
<td>15V</td>
<td>2.4A</td>
<td>0 ~ 2.4A</td>
<td>36W</td>
<td>120mVp-p</td>
<td>13.5 ~ 16.5V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS-35-24</td>
<td>24V</td>
<td>1.5A</td>
<td>0 ~ 1.5A</td>
<td>36W</td>
<td>200mVp-p</td>
<td>22 ~ 27.6V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS-35-48</td>
<td>48V</td>
<td>0.8A</td>
<td>0 ~ 0.8A</td>
<td>38.4W</td>
<td>200mVp-p</td>
<td>42 ~ 54V</td>
<td>±1.0%</td>
<td>±0.5%</td>
<td>±1.0%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### INPUT

<table>
<thead>
<tr>
<th>VOLTAGE RANGE</th>
<th>FREQUENCY RANGE</th>
<th>EFFICIENCY (Typ.)</th>
<th>AC CURRENT (Typ.)</th>
<th>INRUSH CURRENT (Typ.)</th>
<th>LEAKAGE CURRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>88 ~ 264VAC</td>
<td>47 ~ 63Hz</td>
<td>73%</td>
<td>0.8A/115VAC</td>
<td>COLD START 36A/230VAC</td>
<td>&lt;2mA / 240VAC</td>
</tr>
</tbody>
</table>

### PROTECTION

<table>
<thead>
<tr>
<th>OVER LOAD</th>
<th>OVER VOLTAGE</th>
<th>WORKING TEMP.</th>
<th>WORKING HUMIDITY</th>
<th>STORAGE TEMP. HUMIDITY</th>
<th>TEMP. COEFFICIENT</th>
<th>VIBRATION</th>
<th>SAFETY STANDARDS</th>
<th>WITHSTAND VOLTAGE</th>
<th>ISOLATION RESISTANCE</th>
<th>EMI CONDUCTION &amp; RADIATION</th>
<th>HARMONIC CURRENT</th>
<th>EMS IMMUNITY</th>
<th>OTHERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 ~ 150% rated output power</td>
<td>3.8 ~ 4.45V</td>
<td>-25 ~ +70°C (Refer to output load derating curve)</td>
<td>20 ~ 90% RH non-condensing</td>
<td>-40 ~ +85°C, 10 ~ 95% RH</td>
<td>±0.03%/°C (0 ~ 50°C)</td>
<td>10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes</td>
<td>UL60950-1, TUV EN60950-1 Approved</td>
<td>I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC</td>
<td>I/P-O/P: 100M Ohms/500VDC</td>
<td>Compliance to EN55022 (CISPR22) Class B</td>
<td>Compliance to EN61000-3-2,-3</td>
<td>Compliance to EN61000-4-2,3,4,5,6,8,11; EN50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A</td>
<td>MTBF 249Khrs min. MIL-HDBK-217F (25°C)</td>
</tr>
</tbody>
</table>

### NOTE

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 & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. 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.

### FEATURES

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty
### Mechanical Specification

#### Terminal Pin No. Assignment

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Pin No.</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AC/L</td>
<td>4</td>
<td>DC OUTPUT -V</td>
</tr>
<tr>
<td>2</td>
<td>AC/N</td>
<td>5</td>
<td>DC OUTPUT +V</td>
</tr>
<tr>
<td>3</td>
<td>FG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Output Derating

#### Static Characteristics (24V)

- **Ambient Temperature (°C):**
  - 25°C
  - 30°C
  - 35°C

- **Output Voltage (V):**
  - 32
  - 28
  - 24
  - 20

- **Output Ripple (mVpp):**
  - 300
  - 250
  - 200
  - 150
  - 100
  - 50

- **Input Voltage (Vac) 60Hz:**
  - 60
  - 80
  - 100
  - 120
  - 140
  - 160
  - 180
  - 200
  - 220
  - 240
  - 264

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