## Features:

- Universal AC input / Full range
- Built in active PFC function, PF > 0.90
- Green design, No-load power consumption < 0.7W
- Protection: Short circuit, Over Load, Over voltage
  - Brown-out (Low AC Input Voltage)
- High operation temperature up to 70°C
- Withstand 2G vibration test
- 3 years warranty

### Output

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>AK-150-05</td>
<td>5V</td>
<td>20A</td>
<td>0 - 20A</td>
<td>100W</td>
<td>100mVp-p</td>
<td>4.5~5.5V</td>
<td>±2%</td>
<td>±1%</td>
<td>±1%</td>
<td>&lt; 2500ms</td>
<td>&gt; 32ms / 230VAC, &gt; 10ms / 115VAC at full load</td>
</tr>
<tr>
<td>AK-150-7.5</td>
<td>7.5V</td>
<td>20A</td>
<td>0 - 20A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>6.75~8.25V</td>
<td>±1.5%</td>
<td>±1%</td>
<td>±1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AK-150-12</td>
<td>12V</td>
<td>12.5A</td>
<td>0 - 12.5A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>10.8~13.2V</td>
<td>±1.5%</td>
<td>±0.5%</td>
<td>±1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AK-150-13.5</td>
<td>13.5V</td>
<td>11.2A</td>
<td>0 - 11.2A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>12.15~14.9V</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AK-150-15</td>
<td>15V</td>
<td>10A</td>
<td>0 - 10A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>13.5~15.5V</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AK-150-24</td>
<td>24V</td>
<td>6.3A</td>
<td>0 - 6.3A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>21.6~26.4V</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±2%</td>
<td></td>
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</tr>
<tr>
<td>AK-150-27</td>
<td>27V</td>
<td>5.6A</td>
<td>0 - 5.6A</td>
<td>150W</td>
<td>100mVp-p</td>
<td>24.3~29.7V</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AK-150-48</td>
<td>48V</td>
<td>3.2A</td>
<td>0 - 3.2A</td>
<td>150W</td>
<td>153.6W</td>
<td>43.2~52.8V</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±2%</td>
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</tr>
</tbody>
</table>

### Input

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Frequency Range</th>
<th>Power Factor (Typ.)</th>
<th>Efficiency (Typ.)</th>
<th>AC Current (Typ.)</th>
<th>Inrush Current (Typ.)</th>
<th>Leakage Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 ~ 264VAC</td>
<td>50 / 60Hz</td>
<td>&gt; 0.92 / 230VAC</td>
<td>&gt; 0.95 / 115VAC</td>
<td>1.8A / 115VAC</td>
<td>30A / 115VAC</td>
<td>&lt; 2mA / 230VAC</td>
</tr>
<tr>
<td>127 ~ 370VDC</td>
<td></td>
<td></td>
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</tbody>
</table>

### Protection

- Over Load: > 105% rated output power
- Over Voltage: 115 ~ 150% rated output voltage
- Over Temperature: 90 ±5°C detect on NTC

### Environment

- Working Temp.: -20 ~ +70°C (Refer to output load de-rating 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, period for 60min, Each along X, Y, Z axes

### Safety & EMC

- Safety Standards: Certified UL 60950-1; EN 60950-1
- Withstand Voltage: 1500VAC / 1min
- Isolation Resistance: 100M Ohms / 500VDC
- EMI Conduction & Radiation: Certified EN 55022
- Harmonic Current: Certified EN 61000-3-2; EN 61000-3-3
- EMS immunity: Certified EN 61240-3; EN 55024; IEC 61000-4-2, 3, 4, 5, 6, 8, 11

### Others

- MTBF: 101K HRS Certified MIL-HDBK-217F
- Cooling: Air convection
- Dimension (WxHxD): 98x42x197 mm / 3.858x1.854x7.76 inch
- Packing: 0.8Kg; 24pcs / 20.2Kg; 1.29CUFT

### 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. De-rating may apply in low input voltage. Please check the de-rating curve for more details.
5. 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.
6. Conduct this test without enclosure.
■ Mechanical Specification:

Unit : mm

■ De-rating Curve:

Load VS. Temp.

Load VS. IP Voltage

Ta=25°C

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