**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

### Spec Sheet

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AK-100-05</th>
<th>AK-100-7.5</th>
<th>AK-100-12</th>
<th>AK-100-13.5</th>
<th>AK-100-15</th>
<th>AK-100-24</th>
<th>AK-100-27</th>
<th>AK-100-48</th>
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<tr>
<td><strong>Output</strong></td>
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<td>DC Voltage Range</td>
<td>5V</td>
<td>7.5V</td>
<td>12V</td>
<td>13.5V</td>
<td>15V</td>
<td>24V</td>
<td>27V</td>
<td>48V</td>
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<tr>
<td>Rated Current</td>
<td>20A</td>
<td>13.5A</td>
<td>8.5A</td>
<td>7.5A</td>
<td>6.7A</td>
<td>4.2A</td>
<td>3.8A</td>
<td>1.95A</td>
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<tr>
<td>Current Range</td>
<td>0 ~ 20A</td>
<td>0 ~ 13.5A</td>
<td>0 ~ 8.5A</td>
<td>0 ~ 7.5A</td>
<td>0 ~ 6.7A</td>
<td>0 ~ 4.2A</td>
<td>0 ~ 3.8A</td>
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<td>Rated Power</td>
<td>100W</td>
<td>101.2W</td>
<td>102W</td>
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<td>100.5W</td>
<td>100.8W</td>
<td>102.6W</td>
<td>93.6W</td>
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<tr>
<td>Ripple &amp; Noise (Max.)</td>
<td>100mVp-p</td>
<td>100mVp-p</td>
<td>100mVp-p</td>
<td>100mVp-p</td>
<td>100mVp-p</td>
<td>120mVp-p</td>
<td>120mVp-p</td>
<td>200mVp-p</td>
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<tr>
<td>Voltage Adj. Range</td>
<td>4.5 ~ 9.5V</td>
<td>6.75 ~ 8.25V</td>
<td>10.8 ~ 13.2V</td>
<td>12.15 ~ 14.9V</td>
<td>13.5 ~ 16.5V</td>
<td>21.6 ~ 26.4V</td>
<td>24.3 ~ 29.7V</td>
<td>43.2 ~ 52.8V</td>
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<td>Voltage Tolerance</td>
<td>±2%</td>
<td>±1.5%</td>
<td>±1%</td>
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<td>Line Regulation</td>
<td>±1%</td>
<td>±1%</td>
<td>±0.5%</td>
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<td>Load Regulation</td>
<td>±1%</td>
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<td>±0.5%</td>
<td>±0.5%</td>
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<td>Setup, Rise Time</td>
<td>1300ms, 100ms at full load</td>
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<td>Hold Up Time (Typ.)</td>
<td>&gt; 32ms / 230VAC, &gt; 10ms / 115VAC at full load</td>
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<td>Voltage Range</td>
<td>90 ~ 264VAC, 127 ~ 370VDC</td>
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<td>50 / 60Hz</td>
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<td>Efficiency (Typ.)</td>
<td>83%</td>
<td>85%</td>
<td>86%</td>
<td>88%</td>
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<td>AC Current (Typ.)</td>
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<td>Over Load</td>
<td>&gt; 105% rated output power</td>
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<td>Over Voltage</td>
<td>115 ~ 150% rated output voltage</td>
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<td>Over Temperature</td>
<td>90 ± 5°C detect on NTC</td>
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<td>Protection type</td>
<td>shut down o/p voltage, after temperature goes down and re-power ON to recover</td>
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<td>Working Temp.</td>
<td>-20 ~ +70°C (Refer to output load de-rating curve)</td>
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<td>Working Humidity</td>
<td>20 ~ 90% RH non-condensing</td>
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<td>Storage Temp. &amp; Humidity</td>
<td>-40 ~ +85°C, 10 ~ 95% RH</td>
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<td>Temp. Coefficient</td>
<td>±0.03% / °C (0 ~ 50°C)</td>
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<td>Vibration</td>
<td>10 ~ 500Hz, 2G 10min, / 1cycle, period for 60min, Each along X, Y, Z axes</td>
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<td>Harmonic Current</td>
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<td>Dimension (WxHxD)</td>
<td>98x42x157.2 mm / 3.85x1.65x6.189 inch</td>
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<tr>
<td>Packing</td>
<td>0.65kg; 24pcs / 16.6kg / 1.1CUFT</td>
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**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 20kHz 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

![Mechanical Diagram](image)

### De-rating Curve:

#### Load VS. Temp.

![Load VS. Temp. Graph](image)

#### Load VS. I/P Voltage

![Load VS. I/P Voltage Graph](image)

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