

Features:

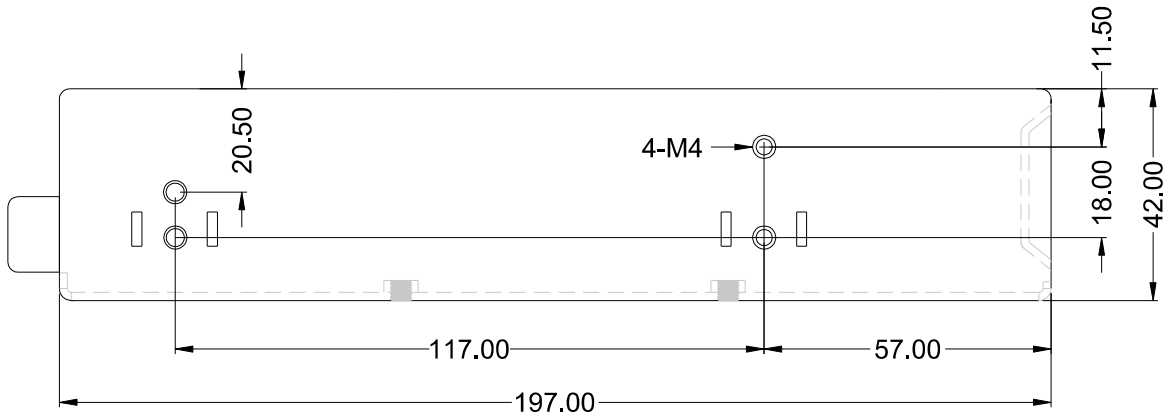
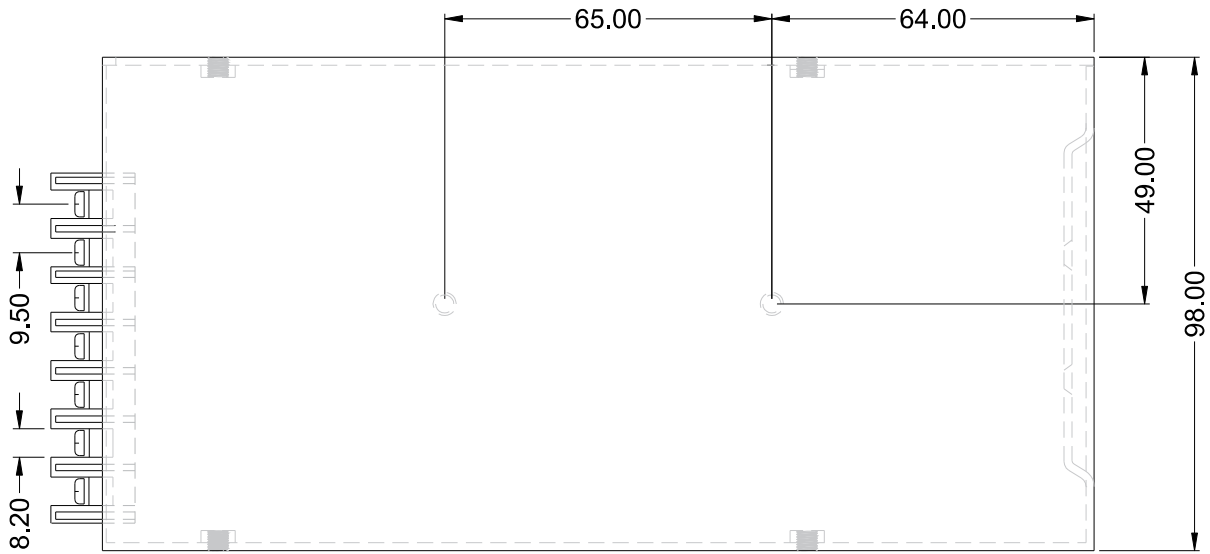
- Universal AC input / Full range
- Built in active PFC function, PF > 0.90
- Green design, No-load power consumption < 0.7W
- Protection: Short circuit, Over load, Over voltage
Brown-out (Low AC Input Voltage)
- High operation temperature up to 70°C
- Withstand 2G vibration test
- 3 years warranty



| MODEL | | AK-150-05 | AK-150-7.5 | AK-150-12 | AK-150-13.5 | AK-150-15 | AK-150-24 | AK-150-27 | AK-150-48 | |
|---------------------|---|---|------------|------------|-------------|------------|------------|------------|------------|--|
| Output | DC Voltage Range | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | Rated Current | 20A | 20A | 12.5A | 11.2A | 10A | 6.3A | 5.6A | 3.2A | |
| | Current Range | 0 ~ 20A | 0 ~ 20A | 0 ~ 12.5A | 0 ~ 11.2A | 0 ~ 10A | 0 ~ 6.3A | 0 ~ 5.6A | 0 ~ 3.2A | |
| | Rated Power | 100W | 150W | 150W | 151.2W | 150W | 151.2W | 151.2W | 153.6W | |
| | Ripple & Noise (Max.) | Note.2 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 120mVp-p | 120mVp-p | 200mVp-p | |
| | Voltage Adj. Range | 4.5~5.5V | 6.75~8.25V | 10.8~13.2V | 12.15~14.9V | 13.5~16.5V | 21.6~26.4V | 24.3~29.7V | 43.2~52.8V | |
| | Voltage Tolerance | Note.3 ±2% | ±1.5% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | |
| | Line Regulation | ±1% | ±1% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | Load Regulation | ±1% | ±1% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% | |
| | Setup, Rise Time | < 2500ms, < 110ms at full load | | | | | | | | |
| Hold Up Time (Typ.) | > 32ms / 230VAC, > 10ms / 115VAC at full load | | | | | | | | | |
| Input | Voltage Range | Note.4 90 ~ 264VAC, 127 ~ 370VDC | | | | | | | | |
| | Frequency Range | 50 / 60Hz | | | | | | | | |
| | Power Factor (Typ.) | > 0.92 / 230VAC, > 0.98 / 115VAC at full load | | | | | | | | |
| | Efficiency (Typ.) | 79% | 82% | 86% | 87% | 87% | 87% | 89% | 89% | |
| | AC Current (Typ.) | 1.8 A / 115VAC, 0.9A / 230VAC | | | | | | | | |
| | Inrush Current (Typ.) | 30A / 115VAC, 55A / 230VAC | | | | | | | | |
| | Leakage Current | < 2mA / 230VAC | | | | | | | | |
| Protection | Over Load | > 105% rated output power Protection type: Hiccup mode | | | | | | | | |
| | Over Voltage | 115 ~ 150% rated output voltage Protection type: latch-off mode | | | | | | | | |
| | Over Temperature | 90 ±5°C detect on NTC Protection type: shut down o/p voltage, after temperature goes down and re-power ON to recover | | | | | | | | |
| 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 | Note.6 I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC), 1min | | | | | | | | |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC | | | | | | | | |
| | EMI Conduction & Radiation | Certified EN 55022 | | | | | | | | |
| | Harmonic Current | Certified EN 61000-3-2; EN 61000-3-3 | | | | | | | | |
| Others | MTBF | 161K HRS Certified MIL-HDBK-217F | | | | | | | | |
| Others | Cooling | Air convection | | | | | | | | |
| | Dimension (WxHxD) | 98x42x197 mm / 3.858x1.654x7.756 inch | | | | | | | | |
| | Packing | 0.8kg; 24pcs / 20.2kg / 1.29CUFT | | | | | | | | |
| Note | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. De-rating may apply in low input voltage. Please check the de-rating curve for more details.</p> <p>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.</p> <p>6. Conduct this test without enclosure.</p> | | | | | | | | | |

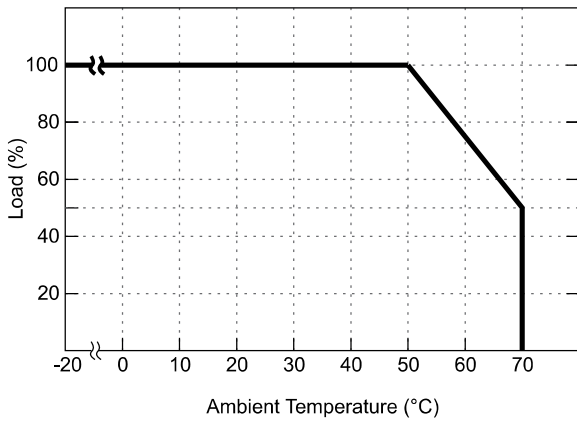
Mechanical Specification:

Unit : mm



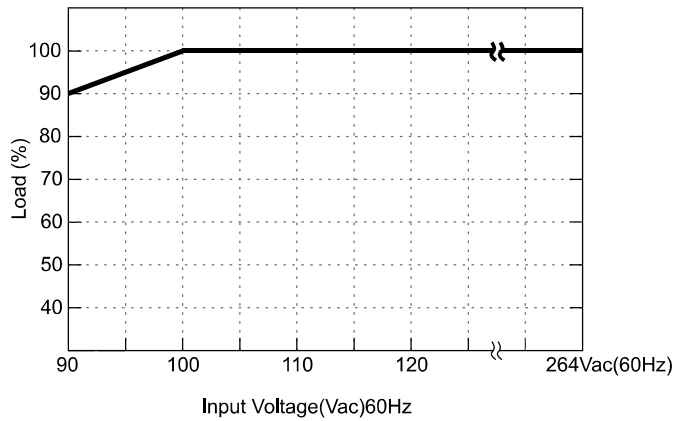
De-rating Curve:

Load VS. Temp.



Load VS. I/P Voltage

Ta=25°C



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