

AI25 Series

25 Watt

Single Output Desktop Power Supply

Features:

- * Universal AC Input (90-264VAC / 47-63 Hz)
- * Green Power for CEC Level V Compliance
- * Small 3.94 x 1.95 x 1.54" Desktop Package
- * Plastic (UL 94V-0 Rated) Enclosure
- * 100,000 hours MTBF (25°C Full Load Operation)
- * Class B Emissions
- * UL/cUL 60950-1 Safety Approval
- * 3 Year Warranty



Input Specifications:

| | |
|------------------------|---|
| Input Range | Universal VAC (90-264 VAC) & 120-370 VDC |
| Input Frequency | 47-63 Hz or DC |
| Inrush Current | 25A @ 115VAC / 50A @ 230VAC max (cold start) |
| Input Current | 700mA@ 90 VAC / 350mA@ 200 VAC Maximum |
| Input Reflected Ripple | FCC 68 part 15 Class B |
| Efficiency | 85% Typical @120VAC (depending on output model) |
| Input Protection | Single Fused (2 Amp / 250 V) |
| Hold-up Time | One Cycle Minimum @ 120 VAC and 80% load |
| Leakage Current | <750 μ A maximum @ 264 VAC |
| Harmonics | EN61000-3-2 Class D |

Output Specifications:

| | |
|--------------------------|---|
| Adjustment Range | Fixed At Factory |
| Minimum Load | None |
| Regulation | \pm 5% |
| Ripple / Noise | \pm 1% or 100mv pk-pk max, whichever is greater |
| Transient Response | +/- 5% Deviation / < 1msec recovery |
| Set-Point Accuracy | \pm 2% |
| Short Circuit Protection | Continuous |
| Over Load Protection | 125-150%, auto-recovery |
| Over Voltage Protection | n/a |

Emissions Standards

| | |
|----------------------|-----------------------|
| FCC Part 15J, Part 2 | Within Class B Limits |
| EN55022 / CISPR22 | Within Class B Limits |

Electromagnetic Compatibility:

| | |
|-------------------------|--|
| Electrostatic Discharge | EN61000-4-2, \pm 4KV Contact / \pm 8KV Air Discharge |
| Radiated Susceptibility | EN61000-4-3, 26-1000MHz, 10V/M, 80% AM |
| EFT / Bursts | EN61000-4-4, \pm 2KV |
| Surges | EN61000-4-5, \pm 2KV Line-Earth, \pm 1KV Line-Line |
| Conducted Immunity | EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM |
| Voltage Dips | EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms |
| Voltage Interruptions | EN61000-4-11, 95% Reduction, 5s |
| Radiated Emissions | FCC 68 part 15 Class B |
| Conducted Emissions | FCC 68 part 15 Class B |
| Harmonic Current | EN61000-3-2 Class D |
| Fluctuations & Flicker | EN61000-3-3 |

Environmental Specifications:

| | |
|-------------------|---|
| Operating Temp | 0 ~40°C (De-Rate 5%/1°C Rise To +50°C) |
| Storage Temp | -20 ~ +85°C |
| Cooling | Convection Cooled |
| Temp Co-Efficient | 0.4% per °C |
| Humidity | 5 to 95% RH Non-Condensing |
| Vibration | 3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz |
| Shock | 20G Peak Acceleration |
| Reliability | >100k hours MTBF (Full Load and 25°C Operation) |

International Safety Approvals

| | |
|-----------|---|
| Standards | UL/cUL 60950-1 Approved CB IEC60950-1 CE Mark (LVD) |
|-----------|---|

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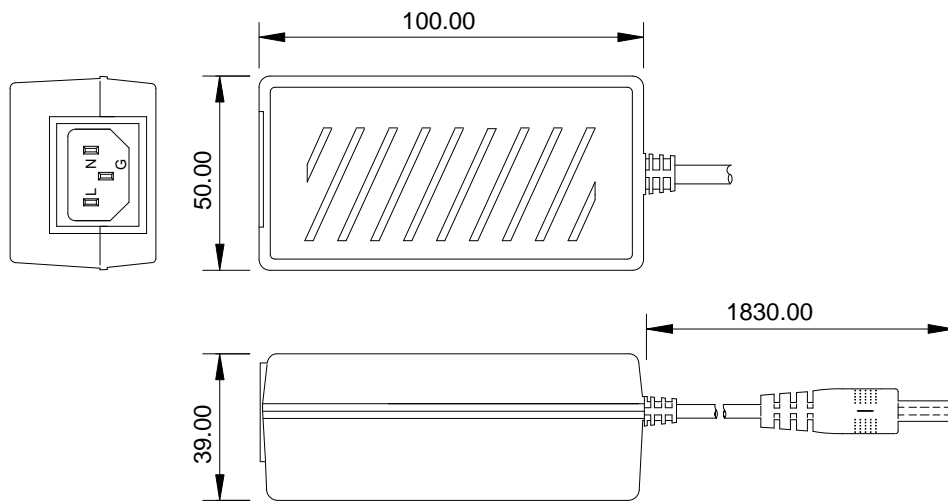
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Output Table:

| Model Number | (Watts) | V1 | A1 |
|--------------|---------|--------|--------|
| AI25-9V | 18.0 | 9 VDC | 2000mA |
| AI25-12V | 24.0 | 12VDC | 2000mA |
| AI25-15V | 24.0 | 15 VDC | 1600mA |
| AI25-18V | 24.3 | 18 VDC | 1350mA |
| AI25-24V | 24.0 | 24 VDC | 1000mA |
| AI25-48V | 24.0 | 48 VDC | 500mA |

Mechanical Specifications:

Construction: US Desktop



The standard output cable length is 6 feet and terminated with a 5.5 x 2.1 x 12mm barrel jack connector (center positive).

Additional output plugs available upon request, minimum quantities may apply.

UNIT: MM