

## AML150 Series



- High Power Density
- Low Cost
- Universal Input
- High Efficiency
- Extended Operating Temperature
- Non-standard Connectors Available
- International Safety Approvals

## Specification

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### Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47-63 Hz
Input Current	• 2.0 A rms at 115 VAC, 1.0 A rms at 230 VAC
Inrush Current	• 60 A at 115 VAC, 120 A at 230 VAC, cold start 25 °C
Power Factor	• 0.95 typical
Earth Leakage Current	• 150 µA max at 115 VAC, 250 µA max at 230 VAC
Input Protection	• Internal 4 A fuse
Standby Power Consumption	• <1 W

### Output

Output Voltage	• See table
Output Voltage Trim	• Not user-adjustable
Initial Set Accuracy	• ±2 %
Minimum Load	• No minimum load required
Start Up Delay	• 5 s max at 100 VAC
Hold Up Time	• 3 ms minimum at 100 VAC
Line Regulation	• 0.5% maximum
Load Regulation	• See table
Transient Response	• 4% max. deviation, recovery to within 1% in 500 µs for a 25% load change
Ripple & Noise	• 2% max pk-pk (see note 1)
Overvoltage Protection	• 110-140% Vnom, recycle input to reset
Overtemperature Protection	• Unit shuts down, recycle input to reset
Overload Protection	• 110-150%, auto recovery
Short Circuit Protection	• Trip and restart (Hiccup mode)
Temperature Coefficient	• 0.04% /°C

### General

Efficiency	• 88% min at 110 VAC or 240 VAC
Isolation	• 3000 VAC Input to Output 1500 VAC Input to Ground
Switching Frequency	• 65 kHz - PFC & PWM
Power Density	• 5.1 W/In <sup>3</sup>
MTBF	• >100 kHrs per MIL-HDBK-217F (25 °C ambient at full load)

### Environmental

Operating Temperature	• 0 °C to +70 °C, derate from 100% power at 40 °C to 60% power at 70 °C
Operating Humidity	• 10 to 95% RH, non-condensing
Storage Temperature	• -20 °C to +80 °C
Operating Altitude	• 3000 m
Shock	• 30 G, 10 ms on 3 axis
Vibration	• 5-100 Hz, 2.31 m/s <sup>2</sup> , 20 mins, 3 axis

### EMC & Safety

Emissions	• EN55022/FCC/VCCI, Class B conducted EN55022/FCC/VCCI, Class B radiated
Harmonic Currents	• EN61000-3-2 Class D
Voltage Flicker	• EN61000-3-3
ESD Immunity	• EN61000-4-2, level 2 Perf Criteria A
Radiated Immunity	• EN61000-4-3, level 2 Perf Criteria A
EFT/Burst	• EN61000-4-4, level 2 Perf Criteria A
Surge	• EN61000-4-5, level 3 Perf Criteria A
Conducted Immunity	• EN61000-4-6, level 2 Perf Criteria A
Dips & Interruptions	• EN61000-4-11, 30% for 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B
Safety Approvals	• EN60950, UL60950, CSA22.2 No. 60950 per cUL, CE Mark

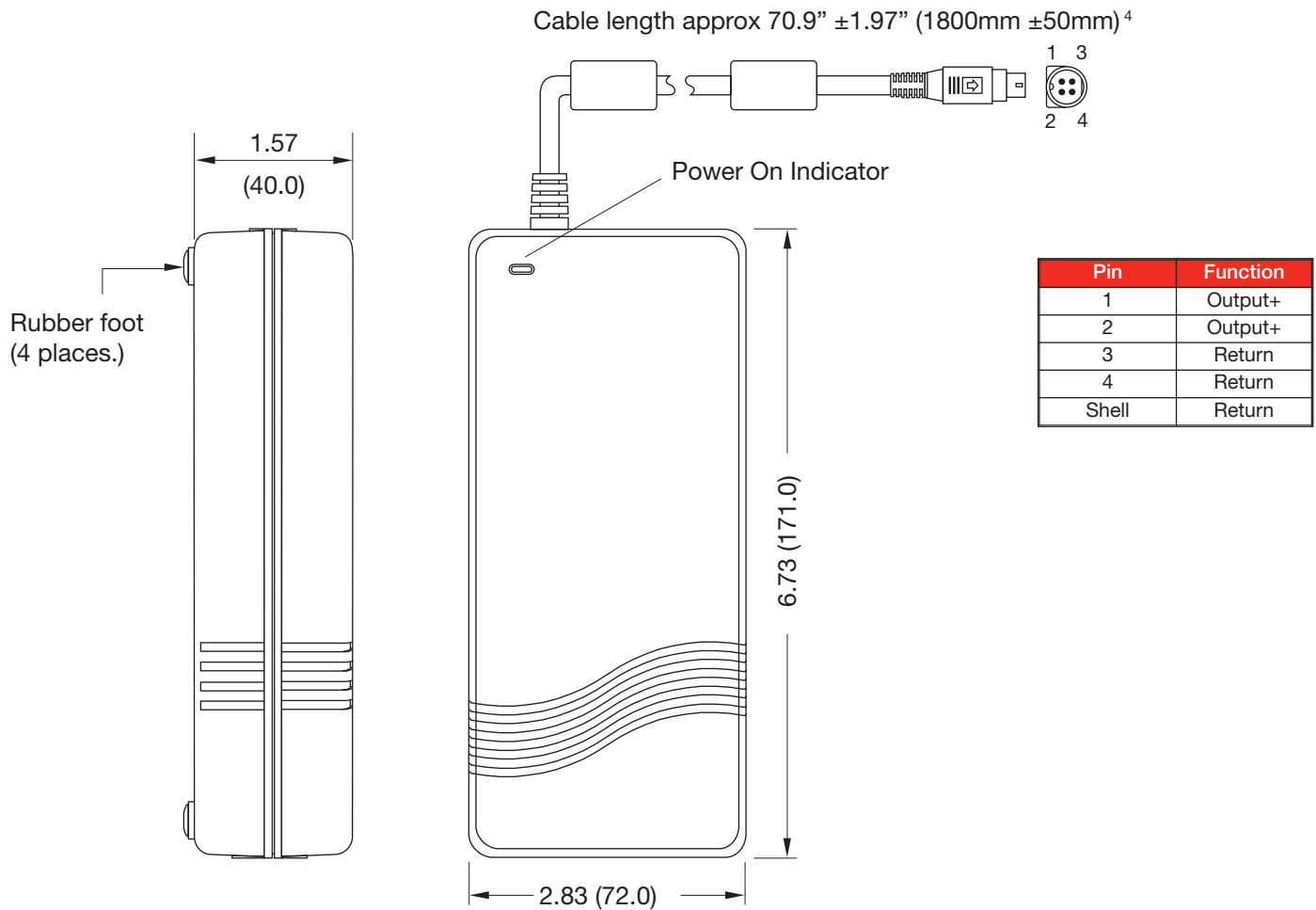
**Models and Ratings**

Output Power	Output Voltage	Output Current	Total Regulation <sup>(2)</sup>	Model Number
150 W	12 V	12.50 A	5%	AML150PS12
150 W	15 V	10.00 A	5%	AML150PS15
150 W	19 V	7.89 A	5%	AML150PS19
150 W	20 V	7.50 A	5%	AML150PS20
150 W	24 V	6.25 A	5%	AML150PS24

**Notes**

1. Ripple and noise measured at 20 MHz bandwidth with a 10  $\mu$ F tantalum and 0.1  $\mu$ F ceramic cap connected at the measurement point.
2. Total regulation includes initial set accuracy, line and load regulation.

**Mechanical Details**



1. Dimensions shown in inches (mm). Tolerance is 0.02 (0.5) maximum, except output cable length.
2. Weight: 1.76 lb (800 g).
3. Optional output connectors available. Consult sales.
4. AML150PS12 cable length is 37.4" (950 mm).
5. Output connector mates with Kycon KJP-4S or equivalent.

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