

AML150 Series



- High Power Density
- Single Outputs from 12 V to 24 V
- Universal Input
- High Efficiency
- 0 °C to +70 °C Operating Temperature
- Non-standard Connectors Available
- International Safety Approvals

Specification

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
Isolation	• 3000 VAC Input to Output 1500 VAC Input to Ground Output 0 V is electrically connected to Input Ground
Switching Frequency	• 20-80 kHz variable
Power Density	• 5.1 W/In ³
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	• 10-95% RH, non-condensing
Storage Temperature	• -20 °C to +80 °C
Operating Altitude	• 3000 m
Shock	• 30 g, 10 ms on 3 axes
Vibration	• 5-100 Hz, 2.31 m/s ² , 20 mins, 3 axes

EMC & Safety

Emissions	• EN55022/FCC/VCCI, Class B conducted EN55022/FCC/VCCI, Class B radiated
Harmonic Currents	• EN61000-3-2
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 ⁽²⁾	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† [^]

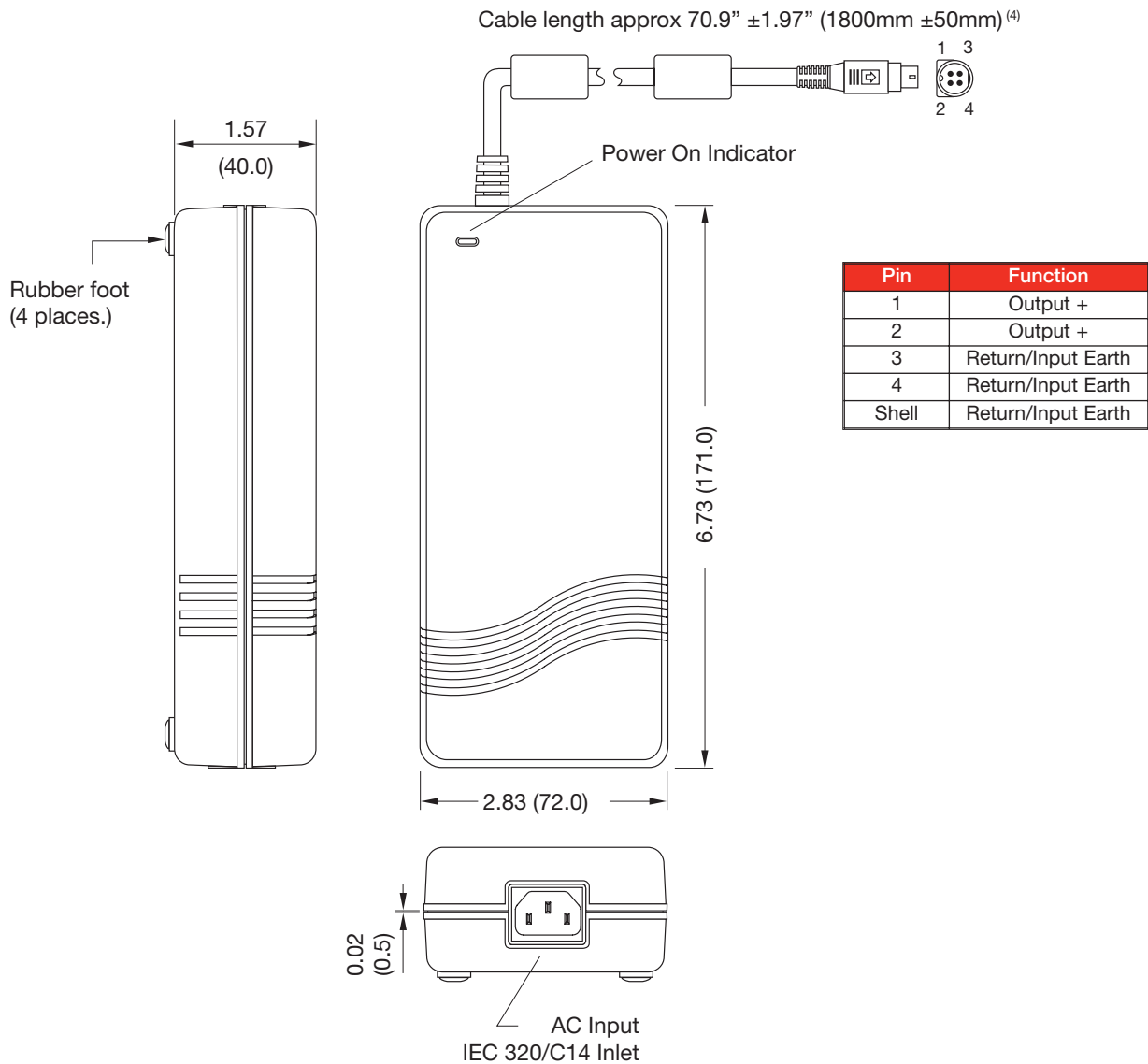
Notes

1. Ripple and noise measured at 20 MHz bandwidth with a 47 μF tantalum and 0.1 μF ceramic cap connected at the measurement point.
2. Total regulation includes initial set accuracy, line and load regulation.

† Available from Farnell. See pages 204-206.

[^] Available from Newark. See page 207-208.

Mechanical Details



Notes

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 (Kycon KPP-4P or equivalent) mates with Kycon KPJ-4S or equivalent.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [XP Power](#) manufacturer:

Other Similar products are found below :

[E70](#) [IMA0105S3V3](#) [JCD0605S05](#) [DLE45PS36](#) [ECE60US09](#) [EML15US24-E](#) [IL0503S](#) [ITV2405SA](#) [JCD0412D05](#) [JCK1524D05](#)
[SDH400PD1224](#) [SMH600PD1224-EF](#) [GSP500PS48-EF](#) [RDD0824D15](#) [MHP1000PS24](#) [JCA0305S15](#) [JCA0605S03](#) [JCD0424S15](#)
[JCG1212S05](#) [JCK2012S15](#) [JCK6048S12](#) [DLG75PS36](#) [A025P-5](#) [JTL6048S12](#) [JTC0648D03](#) [ACS40-60](#) [LOOM](#) [JCK3048S05](#) [JCG1512D15](#)
[IEQ0524S3V3](#) [AH05P-5](#) [EMH350PS48](#) [MTC3528S12](#) [ECM100US07](#) [A12N-5](#) [SDS120PT07B](#) [C06N](#) [HDS3000PS30](#) [HDS1500PS30](#)
[IT4812SA](#) [IT4812S](#) [IT4803SA](#) [LDU4860S250-WD](#) [ISE2405A](#) [EML30US09-P](#) [EML15US05-P](#) [ECL15US24-T](#) [ECL15UD01-T](#)
[SHP350PS28](#) [Q60N-5](#) [Q20N-5](#)