

# AD10048P3L-001

100 Watts

## Data Sheet

**Total Power: 100 Watts**  
**Input Voltage: 90 - 264 Vac**  
**# of Outputs: Single**

### SPECIAL FEATURES

- Active power factor correction
- EN6100-3-2 compliant
- CE Mark EMC & LVD
- Universal ac input
- Fully regulated output
- Overcurrent, overvoltage and thermal protection
- Constant voltage
- Level V efficiency
- High MTBF
- IEC320 ac receptacle, 3 pin (type C6)
- Built in EMI filter
- (CISPR 22 Class B)
- AC Input fuse
- Complies with One Watt Input Energy Star/Blue Angel requirement
- POE isolation on output

### SAFETY

- UL UL 60950-1
- CSA CSA-C22.2 no.60950-1
- NEMKO EN/IEC60950-1
- CB Certificate and report



### Electrical Specifications

Input	
Input range:	90 - 264 Vac (wide range)
Frequency:	47 - 63Hz
Inrush current:	40 A maximum @ 264 Vac, cold start 25 °C
Input current:	1.8 A maximum
Efficiency:	90% typical
EMI/RFI:	FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class-B
Safety ground leakage current:	3.5 mA maximum @ 50/60 Hz, 264 Vac input
Output	
Maximum Power (Po):	100 W
Hold-up time:	10 ms. minimum at full load @ 115 Vac
Overvoltage protection:	53 - 60 V Latching type, recycle ac to reset
Overcurrent protection:	Output short circuit protection auto recover Overload protection @ 110 - 120% above maximum rating
Thermal protection:	105 °C to 120 °C Trip point; output will latch off
Cable/connector:	DC cable length 2.5 mm center plug DC plug center +v DC plug outer -v

### Environmental Specifications

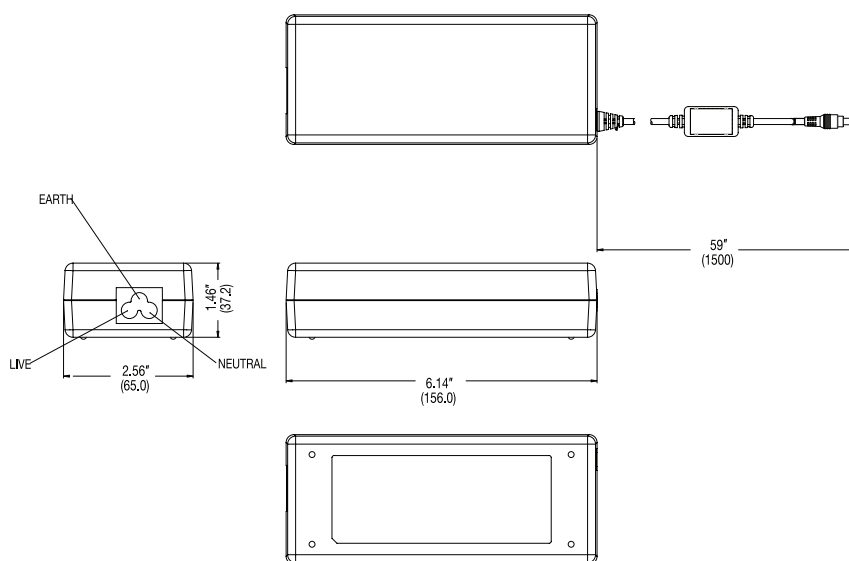
Operating temperature:	0 ° to + 45 °C ambient
Storage temperature:	- 40 °C to + 70 °C
Electromagnetic susceptibility:	Designed to meet EN61000-4-2, -4, -5, level 4; EN61000-4-3, -6, 10v/m; EN61000-4-8, -11; EN61000-3-3 and EN61000-3-2 Class A
Humidity:	Operating; non-condensing 5% to 90% RH
MTBF demonstrated:	> 300,000 hours at full load and 25 °C ambient conditions

## Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
AD10048P3L-001	100 W	48 Vdc	2.08 A	2.29 A	± 5%	< 500 mV

1. Peak current lasting <4 seconds with a maximum 10% duty cycle.
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

## Mechanical Drawing



1.47" (H) x 2.56" (W) x 6.14" (L)  
 37.2 mm (H) x 65.0 mm (W) x 156.0 mm (L)  
 AC Input Connector: IEC320,C6  
 AC Input power cord sold separately

### Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)
3. Warranty: 2 year
4. Weight: 1.11 lb./0.5 kg
5. AC input power cord sold separately.
6. Specifications at factory settings at 115 Vac input, 25 °C unless otherwise stated

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