



15.4W Single Port Power-over-Ethernet IEEE802.3af Compliant Power Injector



Features

- Compliant with IEEE802.3af Standard
- Non-Vented Case
- Small case size
- 1 Year Warranty
- Gigabit data rates
- Full Protection OCP, OVP
- Low Cost
- DOE Level VI Compliant
- Australia GEMS Registered

Applications

- IP Telephones
- Wireless Network Access Points
- Security Cameras

Safety Approvals

- cUL/UL 60950-1
- IEC/EN 60950-1
- AS/NZS 62368.1
- CE
- cUL/UL 62368-1
- IEC/EN 62368-1
- LPS

Mechanical Characteristics

- Length: 106mm (4.17in)
- Width: 40mm (1.57in)
- Height: 27mm (1.1in)
- Weight: 100g (3.5oz.)

Output Specifications

Model	Data Speed	DC Output Voltage	Load		Regulation		Ripple & Noise ¹ p-p(max)
			Min	Max	Line	Load	
POE15M-1AF-R ²	1G	56V	10mA	0.275A	54-57V		200mV
POE15M-1AFE-R ³	2.5G	56V	10mA	0.275A	54-57V		200mV

Notes:

1. Measured with by-pass capacitors 0.1uf/10uf at output connector terminal and oscilloscope set at 20Mhz(tested by oscilloscope).
2. Special order item. Minimum order quantity applies.
3. Shielded RJ45

INPUT:

AC Input Voltage Range
90 to 264VAC

AC Input Voltage Rating
100 to 240VAC

AC Input Current
0.55A (RMS) max for 90VAC
0.35A (RMS) max for 240VAC

Leakage Current
0.5mA max @ 254VAC/50Hz

AC Input Frequency
47-63Hz

AC Inrush Current
30A (RMS) max for 115VAC
60A (RMS) max for 230VAC

Hold-up time:
16mS min at max load and 120VAC, 60Hz

ENVIRONMENTAL:**Temperature**

Operation	-20°C to +50°C
Non-operation	-20°C to +75°C
Humidity	5 to 90%

EMC

Complies with FCC Part 15 Class B
Complies with EN55032 Class B
Complies with AS/NZS CISPR 32 Class B

Immunity

ESD:EN61000-4-2.	Level 3
RS:EN61000-4-3.	Level 2
EFT:EN61000-4-4.	Level 2
Surge:EN61000-4-5.	Level 3
CS: EN61000-4-6.	Level 2
Voltage Dips	EN61000-4-11
Harmonic:	EN61000-3-2 Class A

Isolation Test

Primary to Secondary: 3000VAC for 1 second
10mA

Insulation Resistance

Primary to Secondary: >10M OHM 500VDC

FEATURES:

Over Voltage Protection
<120V – Latching

Over Current Protection
≤450mA

Short Circuit Protection
300-450mA

Indicator

Blinking GREEN – Unit is “ON” Active with
No Load
Solid GREEN – Unit has detected a Valid
IEEE802.3af Load
Blinking YELLOW/Solid GREEN – Unit has
detected an Invalid Load
Blinking Green/Solid YELLOW – Unit is in
Over-Load Condition

Input Connector

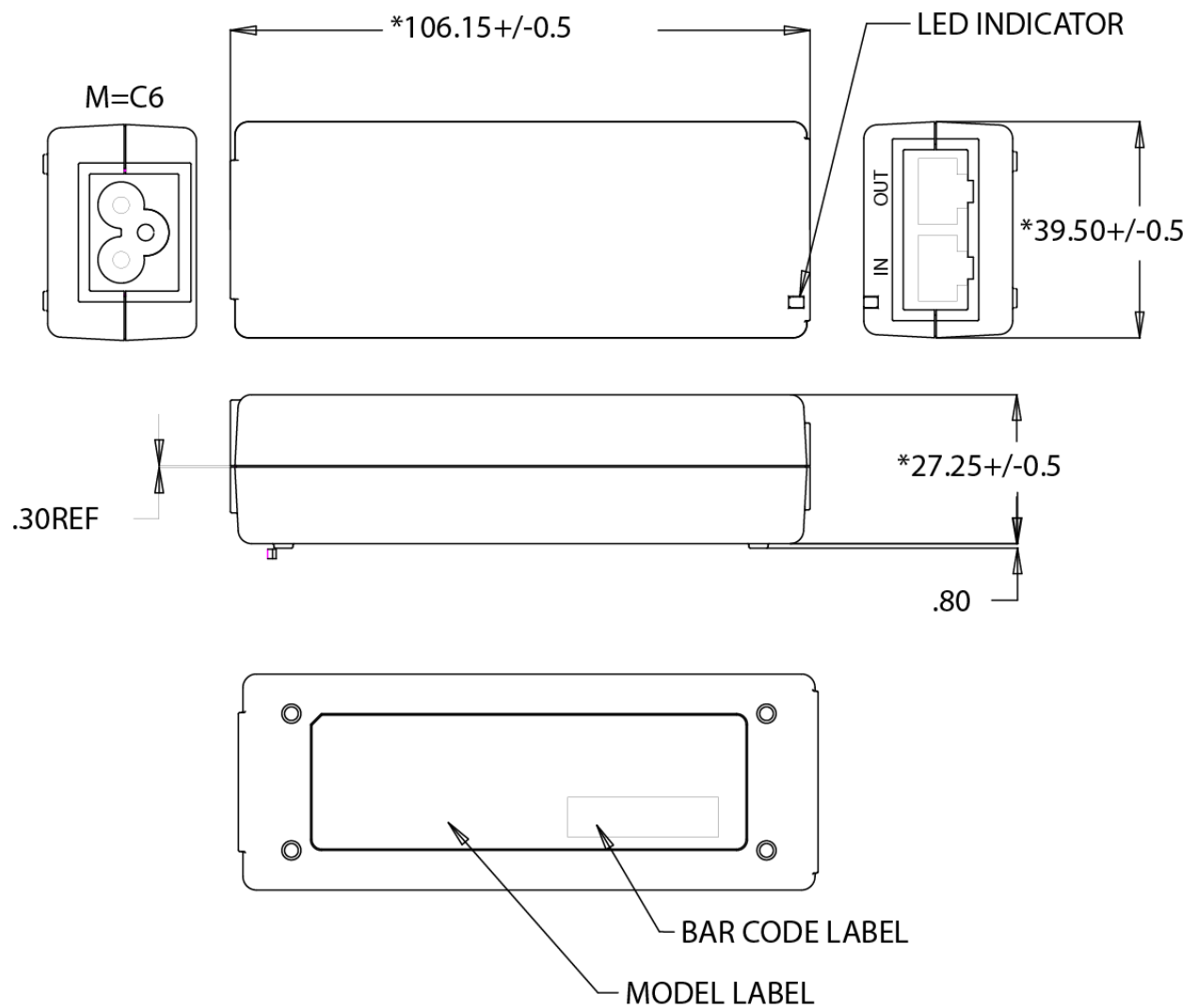
IEC6320-C6

Data in/Output Connector

RJ45
POE15M-1AFE-R: Earth grounded shielded
RJ45 connectors

Output Connection

+pin 3,6 / -pins 1,2





Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

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This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Mouser Electronics

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[POE15M-1AFE-2-R](#) [POE15M-1AFE-R](#)