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

<table>
<thead>
<tr>
<th>Model</th>
<th>Data Speed</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Regulation</th>
<th>Ripple &amp; Noise1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Min</td>
<td>Max</td>
<td></td>
</tr>
<tr>
<td>POE15M-1AF-R²</td>
<td>1G</td>
<td>56V</td>
<td>10mA</td>
<td>0.275A</td>
<td>200mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Line</td>
<td>Load</td>
<td></td>
</tr>
<tr>
<td>POE15M-1AFE-R³</td>
<td>2.5G</td>
<td>56V</td>
<td>10mA</td>
<td>0.275A</td>
<td>200mV</td>
</tr>
</tbody>
</table>

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

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### POE15M-1AF Characteristics

#### INPUT:
- **AC Input Voltage Range**: 90 to 264VAC
- **AC Input Voltage Rating**: 100 to 240VAC
- **AC Input Current**: 0.5A (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

WWW.PHIHONG.COM
Supplier’s Declaration of Conformity
47 CFR § 2.1077 Compliance Information

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NOTE: This model has/The models in this product series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  — Reorient or relocate the receiving antenna.
  — Increase the separation between the equipment and receiver.
  — Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  — Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user’s authority to operate the equipment.