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
- Security Cameras
- Wireless Network Access Points

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)
- Height: 27mm (1.1in)
- Width: 40mm (1.57in)
- 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 p-p(max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>POE15M-1AF-R²</td>
<td>1G</td>
<td>56V</td>
<td>10mA</td>
<td>0.275A</td>
<td>54-57V</td>
</tr>
<tr>
<td>POE15M-1AFE-R³</td>
<td>2.5G</td>
<td>56V</td>
<td>10mA</td>
<td>0.275A</td>
<td>54-57V</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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<table>
<thead>
<tr>
<th><strong>POE15M-1AF Characteristics</strong></th>
<th><strong><a href="http://WWW.PHIHONG.COM">WWW.PHIHONG.COM</a></strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INPUT:</strong></td>
<td></td>
</tr>
<tr>
<td>AC Input Voltage Range</td>
<td>Isolation Test</td>
</tr>
<tr>
<td>90 to 264VAC</td>
<td>Primary to Secondary: 3000VAC for 1 second</td>
</tr>
<tr>
<td>AC Input Voltage Rating</td>
<td>Insulation Resistance</td>
</tr>
<tr>
<td>100 to 240VAC</td>
<td>Primary to Secondary: &gt;10M OHM 500VDC</td>
</tr>
<tr>
<td>AC Input Current</td>
<td>FEATURES:</td>
</tr>
<tr>
<td>0.55A (RMS) max for 90VAC</td>
<td>Over Voltage Protection</td>
</tr>
<tr>
<td>0.35A (RMS) max for 240VAC</td>
<td>&lt;120V – Latching</td>
</tr>
<tr>
<td>Leakage Current</td>
<td>Over Current Protection</td>
</tr>
<tr>
<td>0.5mA max @ 254VAC/50Hz</td>
<td>≤450mA</td>
</tr>
<tr>
<td>AC Input Frequency</td>
<td>Short Circuit Protection</td>
</tr>
<tr>
<td>47-63Hz</td>
<td>300-450mA</td>
</tr>
<tr>
<td>AC Inrush Current</td>
<td>Indicator</td>
</tr>
<tr>
<td>30A (RMS) max for 115VAC</td>
<td>Blinking GREEN – Unit is “ON” Active with No Load</td>
</tr>
<tr>
<td>60A (RMS) max for 230VAC</td>
<td>Solid GREEN – Unit has detected a Valid IEEE802.3af Load</td>
</tr>
<tr>
<td>Hold-up time:</td>
<td>Blinking YELLOW/Solid GREEN – Unit has detected an Invalid Load</td>
</tr>
<tr>
<td>16mS min at max load and 120VAC, 60Hz</td>
<td>Blinking Green/Solid YELLOW – Unit is in Over-Load Condition</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL:</strong></td>
<td>Input Connector</td>
</tr>
<tr>
<td>Temperature</td>
<td>IEC6320-C6</td>
</tr>
<tr>
<td>Operation</td>
<td></td>
</tr>
<tr>
<td>-20°C to +50°C</td>
<td></td>
</tr>
<tr>
<td>Non-operation</td>
<td></td>
</tr>
<tr>
<td>-20°C to +75°C</td>
<td></td>
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<tr>
<td>Humidity</td>
<td></td>
</tr>
<tr>
<td>5 to 90%</td>
<td></td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td>Data in/Output Connector</td>
</tr>
<tr>
<td>Complies with FCC Part 15 Class B</td>
<td>RJ45</td>
</tr>
<tr>
<td>Complies with EN55032 Class B</td>
<td>POE15M-1AFE-R: Earth grounded shielded</td>
</tr>
<tr>
<td>Complies with AS/NZS CISPR 32 Class B</td>
<td>RJ45 connectors</td>
</tr>
<tr>
<td><strong>Immunity</strong></td>
<td>Output Connection</td>
</tr>
<tr>
<td>ESD:EN61000-4-2.</td>
<td>+pin 3,6 / -pins 1,2</td>
</tr>
<tr>
<td>Level 3</td>
<td></td>
</tr>
<tr>
<td>RS:EN61000-4-3.</td>
<td></td>
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<tr>
<td>Level 2</td>
<td></td>
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<tr>
<td>EFT:EN61000-4-4.</td>
<td></td>
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<tr>
<td>Level 2</td>
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<tr>
<td>Surge:EN61000-4-5.</td>
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<tr>
<td>Level 3</td>
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<tr>
<td>CS: EN61000-4-6.</td>
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<tr>
<td>Level 2</td>
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<tr>
<td>Voltage Dips</td>
<td></td>
</tr>
<tr>
<td>EN61000-4-11</td>
<td></td>
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<tr>
<td>Harmonic:</td>
<td></td>
</tr>
<tr>
<td>EN61000-3-2 Class A</td>
<td></td>
</tr>
</tbody>
</table>
Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

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Telephone: (510) 445-0100
www.phihong.com

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.