DC-DC Power over Ethernet Splitter
Fully Compliant IEEE802.3af PD Power Supply

Features
- Fully Compliant IEEE802.3af DC Power Supply
- Gigabit Compatible
- DC Good LED
- Full Protection OTP, OCP, OVP
- Non-Vented Case
- 1 Year Warranty

Applications
- IP Telephones
- Security Cameras
- Wireless Network Access Points
- IP Print Servers
- Blue Tooth Access Points

Safety Approvals
- CE

Mechanical Characteristics
- Length: 100mm (3.94in)
- Height: 28mm (1.1in)
- Width: 56mm (2.2in)
- Weight: 0.2Kg (7.05oz)

Output Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Output Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>POE14-033-R</td>
<td>3.3V</td>
<td>2.5A</td>
</tr>
<tr>
<td>POE14-050-R</td>
<td>5V</td>
<td>2.5A</td>
</tr>
<tr>
<td>POE14-120-R</td>
<td>12V</td>
<td>1.17A</td>
</tr>
</tbody>
</table>

Reference files: POE14_user_manual.pdf
**POE14 Characteristics**

**INPUT:**

**Input Voltage Range**
36 to 56V DC; Receives power from either data or spare pairs

**Input Current**
0.6A (DC) 36 V DC at max load

**Inrush Current**
0.4A max

**OUTPUT:**

**Regulation**
Line and Load ±5%

**Ripple**
12V model 120mVp-p
5V & 3.3V models 75mVp-p

**Efficiency**
72% (typical) at max load and 48V DC

**Output Power**

<table>
<thead>
<tr>
<th>Output Model</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3V</td>
<td>8.25W at 36-57V DC</td>
</tr>
<tr>
<td>5V</td>
<td>12.5W at 36-57V DC</td>
</tr>
<tr>
<td>12V</td>
<td>12W at 36-55V DC</td>
</tr>
<tr>
<td>12V</td>
<td>14W at 55-57V DC</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL:**

**Temperature**

| Operation | 0 to +40°C |
| Non-Operation | -25 to +65°C |
| Humidity | 5 to 90% |

**Immunity**

<table>
<thead>
<tr>
<th>Test</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESD</td>
<td>EN61000-4-2 Level 3</td>
</tr>
<tr>
<td>RS</td>
<td>EN61000-4-3 Level 2</td>
</tr>
<tr>
<td>EFT</td>
<td>EN61000-4-4 Level 2</td>
</tr>
<tr>
<td>Surge</td>
<td>EN61000-4-5 Level 3</td>
</tr>
<tr>
<td>CS</td>
<td>EN61000-4-6 Level 2</td>
</tr>
</tbody>
</table>

Voltage Dips: EN61000-4-11

Note: CS, Surge, Harmonics and Dips tested with POE20U

**EMC**

Complies with FCC Class B
Complies with EN55032 Class B

**Dielectric withstand (HI-POT) Test**
1500V AC for 1 minute, 10mA

**Insulation Resistance**
Primary to secondary: >10M Ohm 500V DC

**FEATURES:**

**Short Circuit Protection**
Output can be shorted permanently without damage

**Over Voltage Protection**
By Zener clamping

**Indicators**
Green LED – Output Good

**Input and Output Data Connector**
RJ45

**Output Connector**
Center Positive Barrel 9mm x 2.5mm x 5.5mm. Tip is user changeable for other sizes. Note: The + molded on replaceable tip must line up with the word “tip” on DC cord to ensure that the center pin DC jack is +.

**Notes:**

1. The characteristics defined are at ambient temperature of 25˚C unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in
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

Authorized Distributor

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Phihong:
POE14-050-R