80W Power over Ethernet Midspan
High Power Single Port Injector

**Features**
- Single Source 4-Pair Powering
- Diagnostic LEDs
- Gigabit Compatible
- Full Protection OCP, OVP, OTP
- Wide Operating Temperature Range
- Broken Wire Detection
- 1 Year Warranty

**Applications**
- Satellite Receiver
- Wireless Network Access Points
- LCD Displays
- Security Cameras
- Kiosks
- Computer Workstations

**Safety Approvals**
- cUL/UL
- CE
- C-Tick
- IRAM
- CCC
- SAA
- Korea (PHC)

**Mechanical Characteristics**
- Length: 203mm (8in)
- Width: 108mm (4.25in)
- Height: 63mm (2.5in)
- Weight: 1.93Kg (4.5lbs)

**Output Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Output Voltage</th>
<th>Load</th>
<th>Min.</th>
<th>Max.</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>POE80U-560(G)-R¹</td>
<td>+56V</td>
<td>0A</td>
<td>0A</td>
<td>0.72A</td>
<td>54-57V DC</td>
</tr>
</tbody>
</table>

Note: Output measured over data and spare pairs for combined 1.43A output.
(1) Consult factory for availability

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Revision 2/21/2019
INPUT:
AC Input Voltage Range
85 to 264VAC

AC Input Voltage Rating
100 to 240VAC

Input Frequency
47 to 63Hz

AC Input Current
2.0A (RMS) maximum for 90VAC
1.2A (RMS) maximum for 240VAC

AC Inrush Current
50A (RMS) maximum for nominal input

OUTPUT:
Total Output Power
80W

DC Offset
No data degradation with DC imbalance
18mA per min.

Ripple and Regulation (P-P)
100mV maximum

Efficiency
75% (typical) at maximum load, and
120VAC 60Hz

Hold-up Time
10mS min. 120VAC and maximum load

Transient O/P Voltage Protection
60V maximum at switch on/off at any point
on the AC line phase

EMC
Complies with FCC Class B
Complies with EN55032 Class B

Isolation Test
Primary to Secondary: 4242VDC for 1
minute, 10mA
Primary to Field Ground: 2121VDC for 1
minute
Output to Field Ground: 2121VDC

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

Insulation Resistance
Primary to secondary: >10M OHM 500VDC
Primary to Field Ground: >10M OHM
500VDC

FEATURE:
Detection
12.5K ohm detection resistor value required
to turn on full power (4-pairs)

Over Voltage/Current, Short Circuit
Protection
Outputs equipped with short circuit
protection and overload protection as per
802.3af specifications except max average
pair current is 0.72A, Peak 1.4A per pair.
The output can be shorted permanently
without damage.

ENVIRONMENTAL:
Temperature
Operation -40 to 55C
Non-operation -50 to +85C
Humidity 5 to 90%
**POE80U Characteristics**

**Indicators**
- Green LED 1: DC Power “ON”
- Red LED: Fault detected
- Green LED 2: Power detected “CONNECT” at 80W

**Input Connector**
- IEC320 inlet 3 pin

**Output Connection**
- Pins 3, 6, 4, 5 (+)
- Pins 1, 2, 7, 8 (-)

**Dimension Diagram Unit: mm**
Supplier’s Declaration of Conformity
47 CFR § 2.1077 Compliance Information

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NOTE: This model has/The models in this products 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.
Mouser Electronics

Authorized Distributor

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Phihong:  
POE80U-560(G)-R