



## 80W Power over Ethernet Midspan High Power Single Port Injector



### Features

- Fully Compliant Detection, Disconnect and Voltage Control per IEEE802.3af
- Diagnostic LEDs
- Gigabit Compatible
- 1 Year Warranty
- Single Source 4-Pair Powering
- Full Protection OCP, OVP, OTP
- Broken Wire Detection
- Wide Operating Temperature Range

### 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

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE80U-560(G)-R <sup>1</sup>	+56V	0A	0.72A	54-57V DC	

Note: Output measured over data and spare pairs for combined 1.43A output.

(1) Consult factory for availability

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**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

**ENVIRONMENTAL:****Temperature**

Operation -40 to 55C

Non-operation -50 to +85C

Humidity 5 to 90%

**EMC**

Complies with FCC Class B

Complies with EN55032 Class B

**Isolation Test**Primary to Secondary: 4242VDC for 1  
minute, 10mAPrimary 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: &gt;10M OHM 500VDC

Primary to Field Ground: &gt;10M OHM

500VDC

**IEEE802.3af/at Interoperability**UNH Interoperability report available upon  
request**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.

**Indicators**

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

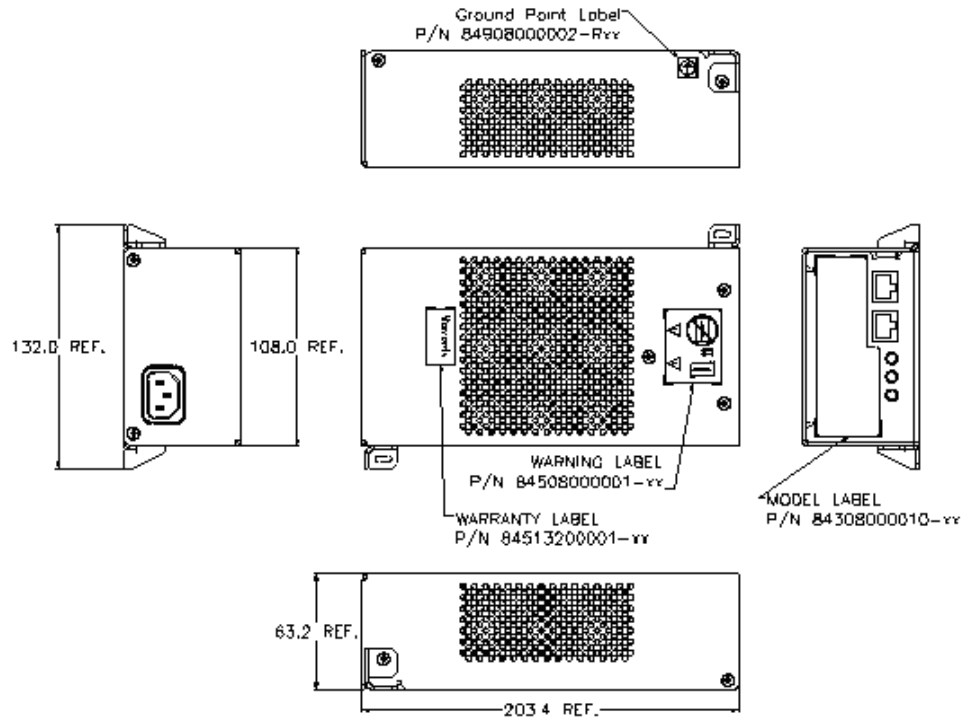
**Input Connector**

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.