



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

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE80U-560(G)-R ¹	+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

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at www.phihong.com for the most up-to-date specifications and contact information.

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, 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.

Indicators

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

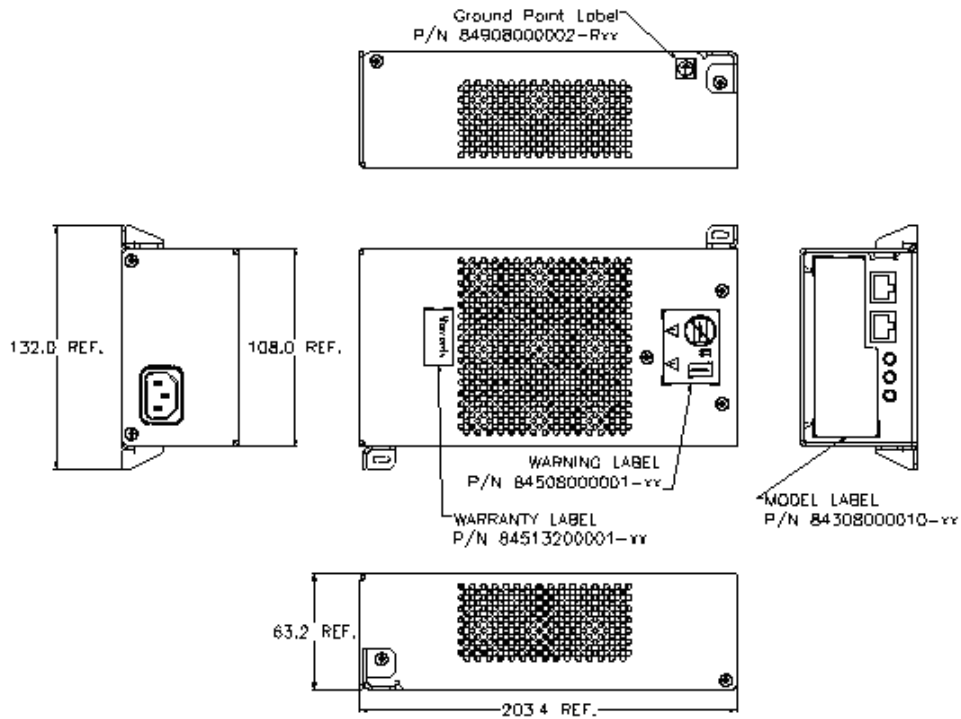
Input Connector

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.