



## 75W Power over Ethernet Adapter Ultra Power over Ethernet Single Port Injector



### Features

- Diagnostic LEDs
- Full Protection OCP, OVP
- 1 Year Warranty
- 25K only on Data Pairs 3,6,1,2 for Detection for Full Power
- Not IEEE BT Compliant
- Gigabit Compatible
- Broken Wire Detection
- Class 4 Operation
- Single Source 4 Pair Power Current Sharing

### Applications

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

### Safety Approvals

- cUL/UL
- CE

### Mechanical Characteristics

- Length: 166mm (6.53in)
- Width: 80mm (3.15in)
- Height: 44mm (1.73in)
- Weight: 0.5Kg

### Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max. <sup>1</sup>	Line	Load
POE75U-1UP(PD) <sup>2</sup>	56V	0A	0.67A	54-57V DC under all conditions	

Notes

1. Load per output. Output on spare pairs and data pairs is 0.67A for a combined output current of 1.34A.
2. Consult factory for availability

Reference files:

1. [SNMPv2c\\_User\\_Manual-Rev1.7.pdf](#)
2. [SNMPv2c\\_Firmware-Rev1.7.zip](#)
3. [SNMPv2c\\_MIB\\_10\\_30\\_2009.zip](#)

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**INPUT:****AC Input Voltage Range**

90 to 264VAC

**AC Input Voltage Rating**

100 to 240VAC, 47-63Hz

**AC Input Current**

2.0A (RMS) max for 90VAC

1.2A (RMS) max for 240VAC

**Leakage Current**

3.5mA max @ 254VAC 60Hz

**AC Inrush Current**

30A (RMS) max for 115VAC

60A (RMS) max for 230VAC

**OUTPUT:****Total Output Power**

75W

**Ripple and Regulation**

250mV max

**DC Offset**

No data degradation with DC imbalance

18mA per min.

**Efficiency**

80% (typical) at max load, 120VAC 60Hz

**Hold-up Time**

10mS min. 120VAC and max load

**Transient O/P Voltage Protection**

60V max

**ENVIRONMENTAL:****Temperature**

Operation -20 to +40°C

Non-operation -25 to +65°C

Humidity 5 to 90%

**EMC**

Complies with FCC Class B

Complies with EN55032 Class B

**Isolation Test**

Primary to Secondary: 4242VDC for 1 min 10mA

Primary to Field Ground: 2121VDC for 1 min

Output to Field Ground: 2121VDC

**Immunity**

ESD: EN61000-4-2. Level 3

RS: EN61000-4-3. Level 3

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 Class A

**Insulation Resistance**Primary to Secondary: >10M OHM  
500VDCPrimary to Field Ground: >10M OHM  
500VDC**Detection**Requires 25K detection on data pairs 3,6(+)  
1,2(-) for full power 75W**FEATURES:****Over Voltage/Current, Short Circuit Protection**

The output can be shorted permanently without damage.

**Indicators**

Green LED 1: DC Power "OK"

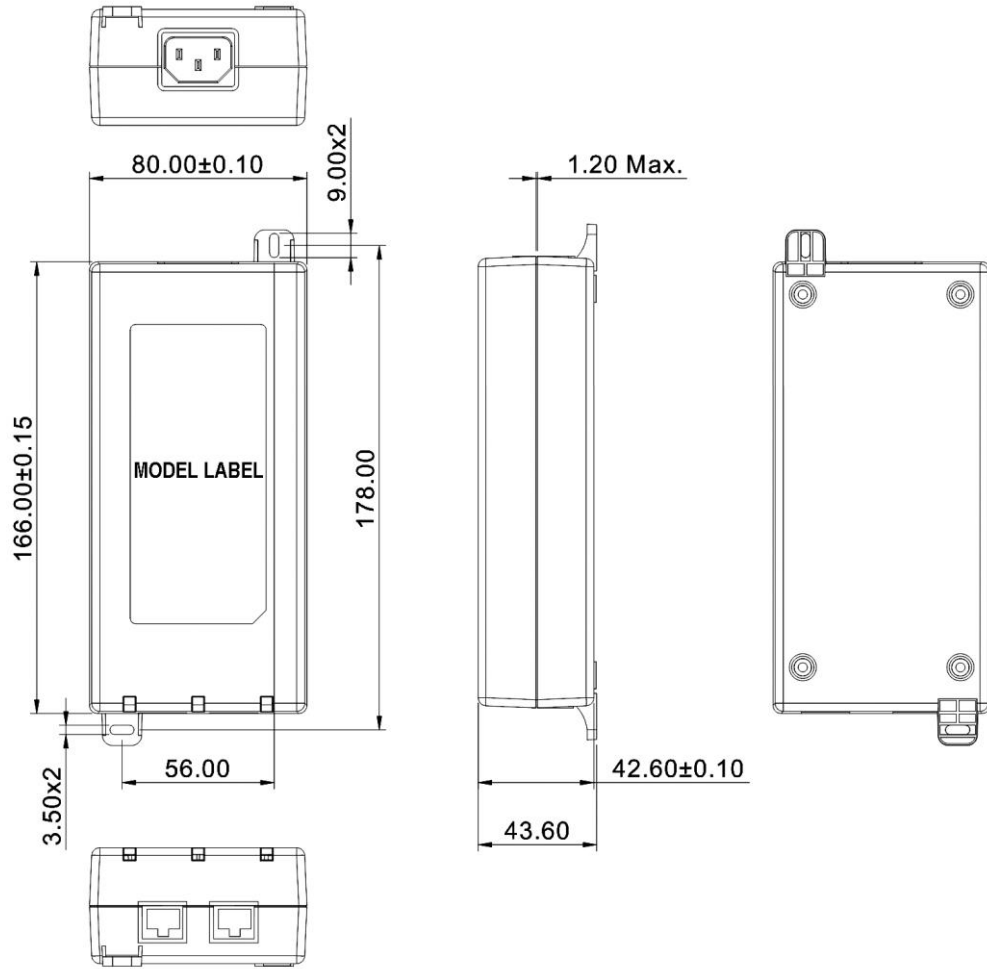
Red LED: Fault detected

Green LED 2: Power detected "CONNECT"  
at 75W

**Input Connector**  
IEC320 inlet 3 pin

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

POE75U Design Dimensions (mm)



**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**

Phihong USA Corporation  
47800 Fremont Boulevard  
Fremont, CA 94538  
Telephone: (510) 445-0100  
[www.phihong.com](http://www.phihong.com)

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.