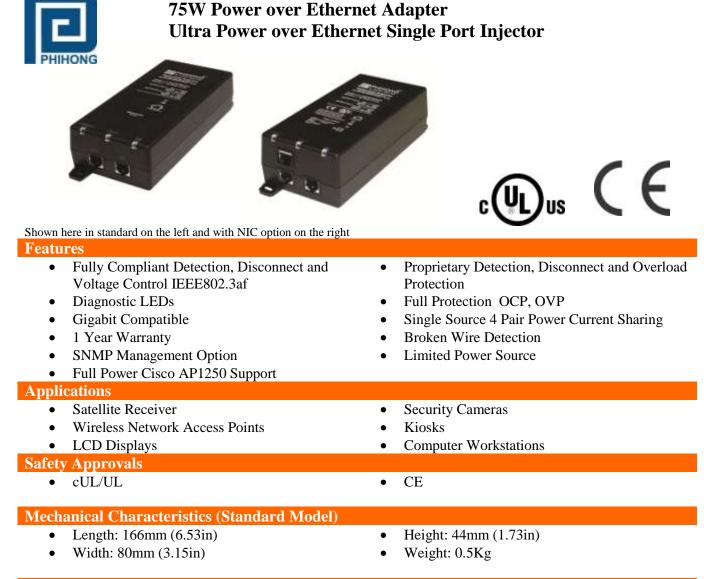
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#### **Output Specifications**

Model	DC Output Voltage*	Load		Regulation	
POE75U-1UP(x)	+56V	Min.	Max.	Line	Load
		0A	0.67A	54-57V DC under all conditions	

Options: (x) = N for SNMP Management Option Note (\*) = 4-pair powering for 2 outputs at 56V, 0.67A

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#### **POE75U Characteristics**

**INPUT: AC Input Voltage Range** 90 to 264VAC

AC Input Voltage Rating 100 to 240VAC, 47-63Hz

#### AC Input Current

2.0A (RMS) maximum for 90VAC 1.2A (RMS) maximum for 240VAC

Leakage Current 3.5mA maximum @ 254VAC 60Hz

#### **AC Inrush Current**

30A (RMS) maximum for 115VAC 60A (RMS) maximum for 230VAC

#### **OUTPUT:**

**Total Output Power** 75W

# **Ripple and Regulation** 250mV maximum

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

**Efficiency** 80% (typical) at maximum load, and 120VAC 60Hz

5 to 90%

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

### **Transient O/P Voltage Protection**

60V maximum

#### **ENVIRONMENTAL:**

TemperatureOperation-20 to +40°CNon-operation-25 to +65°C

#### Humidity

Operation

EMC FCC Part 15 Class B EN55022 Class B

# Warranty

1 Year

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#### **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 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 500VDC Primary to Field Ground: >10M OHM 500VDC

#### IEEE 802.3af/at Interoperability

If 25kohm is detected the unit operates in "IEEE802.3at mode" 33.6W 2 pair powering. 12.5k detection resistance required for full power UNH Interoperability report available upon request

# **FEATURE:**

#### **Cisco Legacy detection**

No extern parts required for Legacy devices: VoIP Phones: 7910,7912,7940,7960 Access Points: 350,1100,1200,1250

#### **Over Voltage/Current, Short Circuit Protection**

Outputs equipped with short circuit protection and overload protection as per 802.3af specifications except max average current is 1.34A The output can be shorted permanently without damage

#### Indicators

Green LED 1: DC Power "OK" Red LED: Fault detected Solid Green LED 2: Power detected "CONNECT" at 75W Flashing Green LED 2: IEEE802.3at detected "CONNECT" at 30W

Input Connector

IEC320 inlet 3 pin

#### **Output Connection**

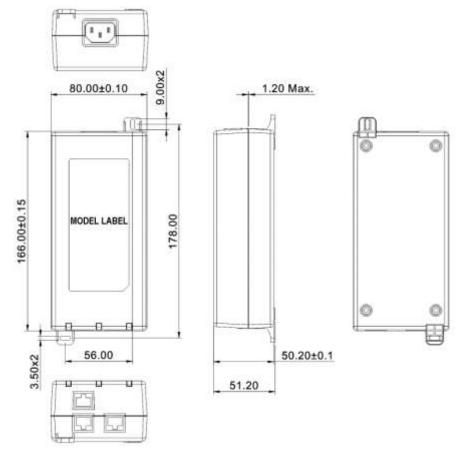
4-pair powering for full power Pins 3,6, 4,5(+) Pins 1,2, 7,8 (-)

2-pair powering for IEEE802.3at mode Pins 3,6(+) Pins 1,2 (-)

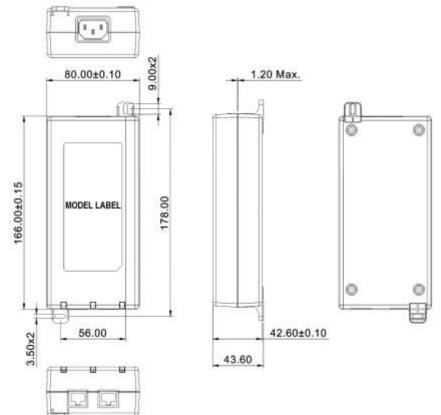
# POE75U Design Dimensions (mm)

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# Case as featured with the SNMP Management option



# Case without the SNMP Management Option





# **Description of LED Functions for Gigabit Power Injector**

#### **Power-up Sequence:**

Upon power-up, all 3 LEDs will light for 2 seconds, as part of the self-test for the internal microprocessor software. After the 2 seconds period, the "ON" LED will illuminate green. The DC output voltage is now available for powering a compliant load (to the 802.3af PoE standards).

# **Detection Sequence:**

Once a compliant load is attached to the output RJ45 connector, the green "CONNECT" LED will illuminate.

Should the load be non-compliant then the LEDs will blink a code specific to the cause for non-detection.

**Detection Failure Codes:** 

- 1. Incorrect resistive signature The green "CONNECT" and red "FAULT" LEDs will blink 3 times.
- 2. Incorrect capacitive signature The green "ON" LED will blink 3 times.
- 3. Incorrect Voffset The green "CONNECT" and green "ON" LEDs will blink 3 times.
- 4. Unstable current measurement The green "ON" LED will blink 3 times
- 5. Low voltage sensed during detection (overload) The red "FAULT" LED will blink 3 times

After the LEDs blink 3 times the Power Injector will continue to try to detect a valid load. Until the correct load is applied, the LEDs will continue to blink. If there is an open circuit connected to the output RJ45 then the LEDs will not blink but the Power Injector will continue to try to detect a valid load.

### Fault Sequence:

Should there be a fault such as an overload or short circuit then the red "FAULT" LED will illuminate. The red "FAULT" LED will illuminate for 2 seconds and then go off as the power supply tries to re-detect a valid load. If there is a problem detecting the load, the LED will indicate a possible fault as per the codes in the section above.