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<image/> <section-header><text></text></section-header>				
Shown here in standard on the left and with NIC option on the right	•			
Features				
 Fully Compliant Detection, Disconnect and Voltage Control IEEE802.3af Diagnostic LEDs Gigabit Compatible 1 Year Warranty SNMP Management Option Full Power Cisco AP1250 Support 	 Proprietary Detection, Disconnect and Overload Protection Full Protection OCP, OVP Single Source 4 Pair Power Current Sharing Broken Wire Detection Limited Power Source 			
Applications				
 Satellite Receiver Wireless Network Access Points LCD Displays Safety Approvals cUL/UL 	 Security Cameras Kiosks Computer Workstations CE 			
Mechanical Characteristics (Standard Model)				
 Length: 166mm (6.53in) Width: 80mm (3.15in) 	Height: 44mm (1.73in)Weight: 0.5Kg			

Output Specifications

Model	DC Output Voltage*	Load		Regulation	
POE75U-1UP(x) +56V		Min.	Max.	Line	Load
	+56V	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.

5 to 90%

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

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

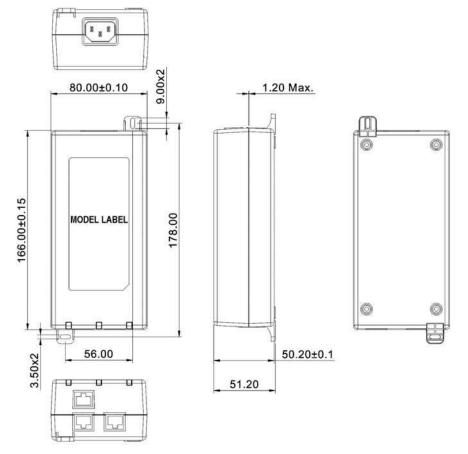
4-pair powering for full power Pins 3,6, 4,5(+) Pins 1,2, 7,8 (-)

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

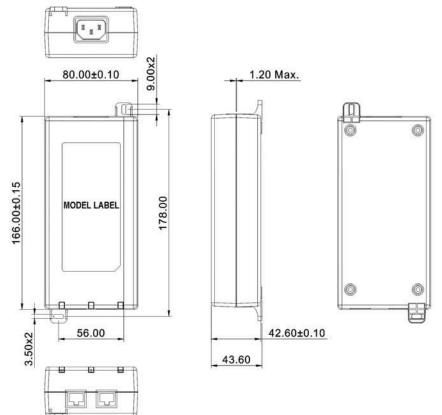
POE75U Design Dimensions (mm)

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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.