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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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



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
- Security Cameras
- Kiosks
- Computer Workstations

Safety Approvals

- cUL/UL
- 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	
		Min.	Max.	Line	Load
POE75U-1UP(x)	+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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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

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

Transient O/P Voltage Protection
60V maximum

ENVIRONMENTAL:

Temperature
Operation -20 to +40°C
Non-operation -25 to +65°C

Humidity
Operation 5 to 90%

EMC
FCC Part 15 Class B
EN55022 Class B

Warranty
1 Year

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

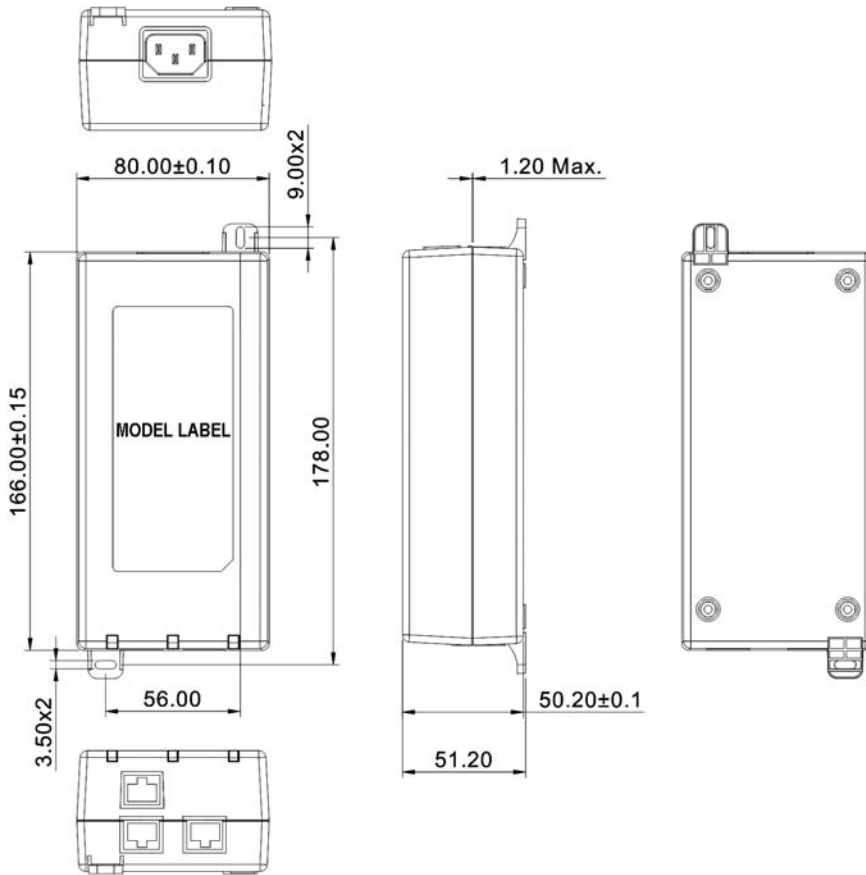
IEC320 inlet 3 pin

Output Connection

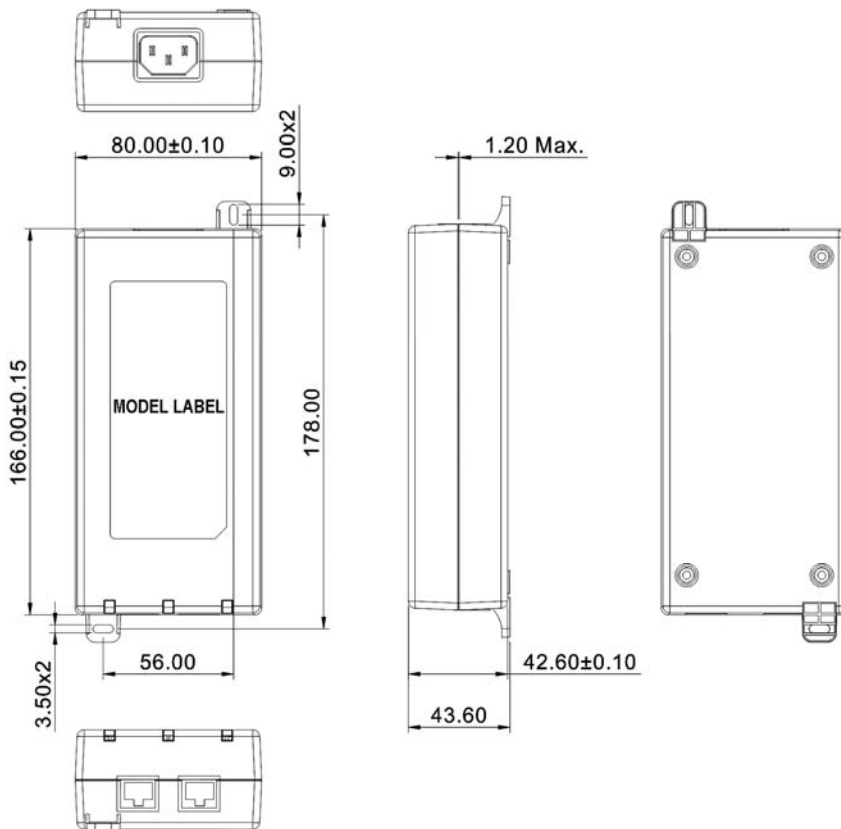
4-pair powering for full power
Pins 3,6, 4,5(+) Pins 1,2, 7,8 (-)

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

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.