

POE60U-560G



60W Power Over Ethernet Adapter

- Fully Compliant detection, disconnect and voltage control IEEE802.3af
- Single Source 4 Pair Power Current Sharing
- Diagnostic LEDs
- Full Protection OCP, OVP
- Gigabit Compatible
- Broken Wire Detect Applications

Dimensions Length:166mm (6.54in) • Height: 43.6mm (1.72in)
 • Width: 80mm (3.15in) • Weight: 0.25Kg

Model	PoE Type	Ports	Power/ Port	SNMP	Cisco Legacy
POE60U-560G	Ultra POE	1	60W		



60W Power Over Ethernet Adapter High Power single port injector.



Features

- Fully Compliant detection, disconnect and voltage control IEEE802.3af
- Diagnostic LEDs
- Gigabit Compatible
- Single Source 4 Pair Power Current Sharing
- Full Protection OCP, OVP
- Broken Wire Detect

Applications

- Satellite Receiver
- Wireless Network Access Points
- LCD Display
- Security Camera
- Kiosk
- Computer workstation

Safety Approvals

- cUL/UL
- CE

Mechanical Characteristics

- Length: 166mm (6.54in)
- Width: 80mm (3.15in)
- Height: 43.6mm (1.72in)
- Weight: 0.25Kg

Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE60U-560G	+56V +56V	0A	0.55A	54-57Vdc under all conditions	

Ripple And Noise*	Vp-p*
<500Hz	0.5
500Hz-150KHz	0.15
150KHz-500KHz	0.15
500KHz-1MHz	0.1

*As per IEEE802.3af Table 33-5.

POE60U Characteristics

INPUT:

AC Input Voltage Range

90 to 264VAC

AC Input Voltage Rating

100 to 240VAC,47-63Hz

AC Input Current

1A(RMS) max. for 90VAC

0.7A(RMS) max. for 240VAC

Leakage Current

0.25mA max. @ 254VAC 60Hz

AC Inrush Current

15A(RMS) max. for 115VAC

20A(RMS) max. for 230VAC

OUTPUT:

Total Output Power

60W

DC Offset

No Data degradation with DC imbalance 18mA per min.

Efficiency

65% (typical) at Max. load, and 120VAC 60Hz

Hold-up Time

16mS min. 120VAC and max. load

Transient O/P Voltage Protection

60V max.

ENVIRONMENTAL:

Temperature

Operation 0 to +40°C

Non-operation -25 to +65°C

Humidity

Operation 5 to 90%

EMC

FCC Part 15 Class B

EN55022 Class B

Isolation Test

Primary to Secondary: 3000VAC for 1 minute 10mA

Primary to F.G.: 1500VAC for 1 minute

Output to F.G.: 1500VAC

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 FC: >10M OHM 500VDC

FEATURE:

Detection

Same as IEEE802.3af except 12.5kohm detection resistor value required at Powered device.

Over Voltage/Current, Short Circuit Protection

Outputs equipped with short circuit protection and overload protection as per 802.3af specification except max average current is 0.55A, Peak 0.6A per pair

The output can be shorted permanently without damage

Indicators

Led #1 indicator for input power "on" GREEN

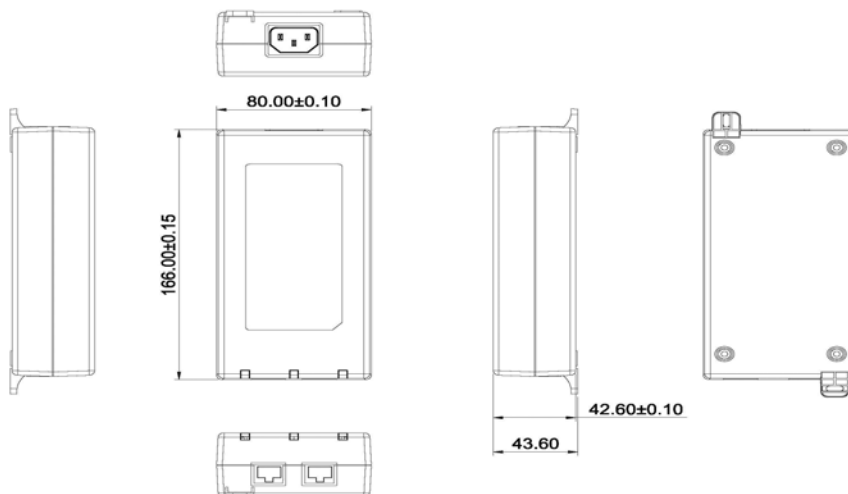
Led #2 Indicator for fault-RED

Led #3 Indicator that Detected and Connected to valid IEEE802.3af load-GREEN

Input Connector

IEC320 inlet 3 pin

Dimension Diagram Unit: mm (inch)





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 end of the 2 seconds, the "ON" LED will illuminate green, signifying that the DC output voltage is 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 signifying 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. Therefore, 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 in detecting, the LED will indicate what is wrong with the load as per the codes in the section above.