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60W Power over Ethernet Adapter Ultra Power Single Port Injector				
	InterOperability Laboratory Part of the University of New Hampshire Research Computing Center Research Computing Center Source State			
atures				
 Fully Compliant Detection, Disconnect and Voltage Control IEEE802.3at Diagnostic LEDs Gigabit Compatible 1 Year Warranty 	 Single Source 4 Pair Power Current Sharing Broken Wire Detection Full Protection OCP, OVP 12.5K or 25K Detection Models Available 			
plications				
 Satellite Receiver Wireless Network Access Points LCD Displays fety Approvals 	Security CamerasKiosksComputer Workstations			
 cUL/UL CE 	SAAC-Tick			
chanical Characteristics				
Length: 166mm (6.53in)Width: 80mm (3.15in)	Height: 44mm (1.73in)Weight: 0.4Kg			
tput Specifications				

Madal	DC Output	Load		Regulation	
Model Voltage ²	Min.	Max.	Line	Load	
POE60U-560G-XX-R ¹	+56V	0.0A	.55A	54-57Vdc under all conditions	

Note 1 - XX refer to VC model that is available with 25K detection. Standard model offers 12.5K detection.

Note 2 - 2 outputs of 56V DC at .55A over 4 pair powering

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POE60U-560(G)-XX-R Characteristics

INPUT: AC Input Voltage Range 90 to 264VAC

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

AC Input Current

2A (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 40A (RMS) maximum for 230VAC

OUTPUT:

Total Output Power 60W

DC Offset

No data degradation with DC imbalance 18mA per min.

Efficiency

75% (typical) at maximum load, and 120VAC 60Hz

0 to +40°C

5 to 90%

-25 to +65°C

Hold-up Time

10mS minimum 120VAC and maximum load

Transient O/P Voltage Protection 60V maximum

ENVIRONMENTAL:

Temperature

Operation Non-operation

Humidity

Operation

EMC

FCC Part 15 Class B EN55022 Class B

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Isolation Test

Primary to Secondary: 4242VDC for 1 minute 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 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 Class A

Insulation Resistance

Primary to secondary: >10M OHM 500VDC Primary to FC: >10M OHM 500VDC

IEEE 802.3af/at Interoperability

UNH Interoperability report available upon request

FEATURE:

Detection

12.5kohm detection resistor value required to turn on full power 4 pair power. VC Model has 25Kohm detection resister value requirement to turn on full 4 pair power.

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 0.55A, Peak 0.6A per pair. 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 60W

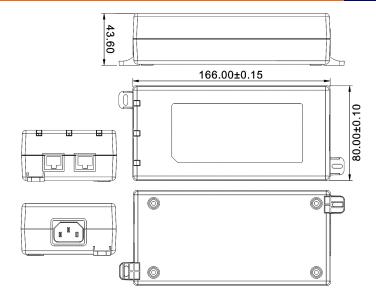
Input Connector IEC320 inlet 3 pin

IEC320 inlet 3 pl

Warranty 1 Year

Dimension Diagram Unit:mm

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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 second period, the "ON" LED will illuminate green. 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 specific to the cause for nondetection.

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 redetect a valid load. If there is a problem detecting the load, the LED will indicate the possible fault as per the codes in the section above.