60W Power over Ethernet Adapter
Ultra Power Single Port Injector

Features

- Full Protection OCP, OVP
- Diagnostic LEDs
- Gigabit Compatible
- 1 Year Warranty
- Single Source 4 Pair Power Current Sharing
- Broken Wire Detection
- 12.5K Detection Required for Operation

Applications

- Satellite Receiver
- Wireless Network Access Points
- LCD Displays
- Security Cameras
- Kiosks
- Computer Workstations

Safety Approvals

- cUL/UL
- CE
- SAA
- C-Tick

Mechanical Characteristics

- Length: 166mm (6.53in)
- Width: 80mm (3.15in)
- Height: 44mm (1.73in)
- Weight: 0.4Kg

Output Specifications

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

Note 1 - Model available only in special order quantities only. Minimum order is 500 pieces.
Note 2 – 2 outputs of 56V DC at .55A over 4 pair powering

POE60U-560(G)-R Characteristics WWW.PHIHONG.COM

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

Hold-up Time
10mS minimum 120VAC and maximum load

Transient O/P Voltage Protection
60V maximum

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: 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

FEATURE:

Detection
12.5kohm detection resistor value required to turn on full power 4 pair power.

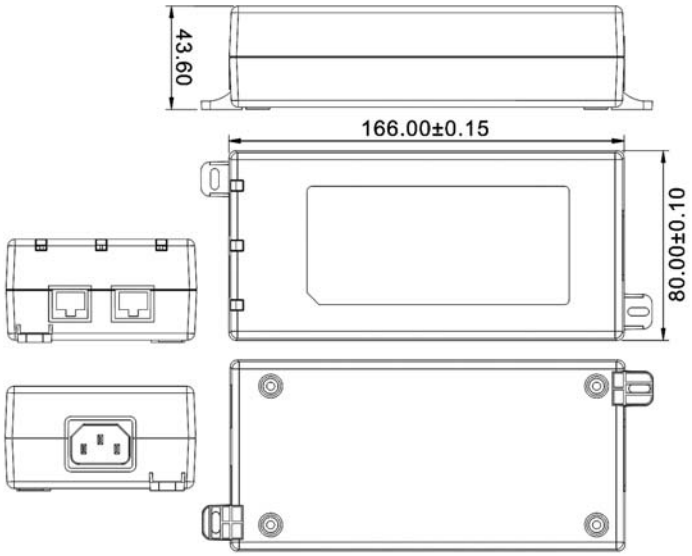
Over Voltage/Current, Short Circuit Protection
Outputs equipped with short circuit protection and overload protection and the maximum average current is 0.55A, Peak 0.6A per pair. The output can be shorted permanently without damage

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

Warranty
1 Year

Dimension Diagram Unit:mm **WWW.PHIHONG.COM**



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.

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 the possible fault as per the codes in the section above.