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90W Single Port Multi-Gig Passive Power over Ethernet Midspan

Features

- Compliant with Phihong Proprietary 12.5K Detection
- Diagnostic LEDs
- 4 Pair Powering +3,6,4,5 / - 1,2,7,8
- Single Source 4 Pair Power Current Sharing
- Gigabit Compatible
- Broken Wire Detection
- Full Protection OCP, OVP
- Limited Power Source
- 1 Year Warranty

Applications

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

Safety Approvals

- cUL/UL 60950-1
- cUL/UL 62368-1
- IEC60950-1
- IEC62368-1
- CE

Mechanical Characteristics (Standard Model)

- Length: 166mm (6.53in)
- Width: 80mm (3.15in)
- Height: 44mm (1.73in)
- Weight: 500g (1.1lbs)

Output Specifications

Model	Data Speed	DC Output Voltage	Load		Regulation[1]	
			Min.	Max.[2]	Line	Load
POE90U-560-R	1G	56V	>15mA	1.6A	56VDC +1V/-2V	
POE90U-560-2	2.5G	56V	>15mA	1.6A	56VDC +1V/-2V	
POE90U-560-5-R	5G	56V	>15mA	1.6A	56VDC +1V/-2V	
POE90U-560-X-R	10G	56V	>15mA	1.6A	56VDC +1V/-2V	

Notes:
1. Voltage measured within 2" of the output RJ45 connector on data pairs 3,6(+) and 1,2(-)
2. Combined output on data pairs and spare pairs. Otherwise 800mA on data pairs 3,6(+) 1, 2(-) and spare pairs 4,5(+) 7,8(-)

POE90U-560 Characteristics[1] WWW.PHIHONG.COM

INPUT:

AC Input Voltage Range
90 to 264VAC

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

AC Input Current
2.5A (RMS) maximum for 900VAC
1.2A (RMS) maximum for 240VAC

Leakage Current
3.5mA maximum @ 264VAC 50Hz

AC Inrush Current
50A (RMS) maximum for 115VAC
75A (RMS) maximum for 240VAC

OUTPUT:

Total Output Power
90W

Ripple and Regulation
200mV max @25ºC, 100-240VAC

Efficiency[2]
75% (typical) at max load, and 120VAC 60Hz

Hold-up Time
10mS min. 120VAC 60Hz max load

ENVIRONMENTAL:

Temperature

Operation	-20°C to +60°C
Non-operation	-20°C to +65°C
Humidity	5 to 90%

EMI
Complies with FCC part 15 Class B
Complies with EN55032 Class B

Isolation Test
Primary to Secondary:
4242VDC for 1 minute 10mA
Primary to Field Ground:
2121VDC for 1 minute

Immunity

ESD:	IEC61000-4-2 Level 3
RS:	IEC61000-4-3 Level 3
EFT:	IEC61000-4-4 Level 2
Surge:	IEC61000-4-5 Level 3
CS:	IEC61000-4-6 Level 2
Voltage Dips	IEC61000-4-11 Class 3
Harmonic:	IEC61000-3-2 Class A

Insulation Resistance
Primary to Secondary: >10M OHM 500VDC
Primary to Field Ground: >10M OHM 500VDC

FEATURES:

Over Current Protection
Output #1(OUT) <1000mA
Output #2(OUT) <1000mA
Output #1 and #2 combined(OUT) <2000mA

Over Voltage Protection
Conforms to UL60950-1

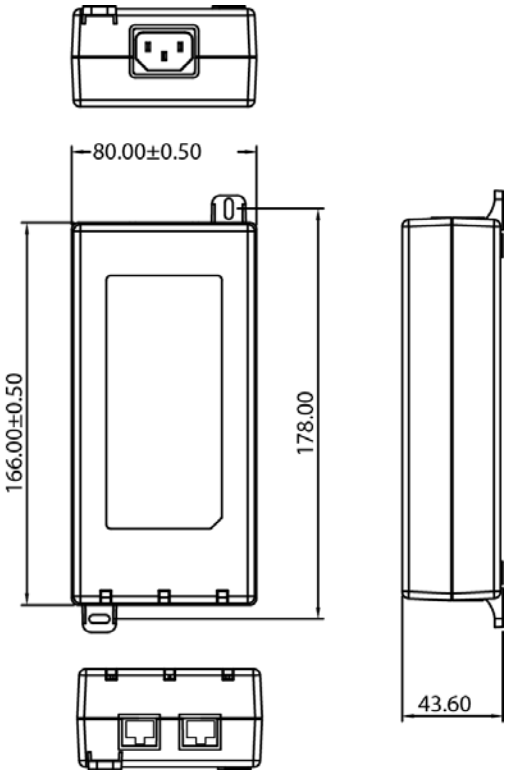
Short Circuit Protection
Non-latching auto recovery.The output can be shorted permanently without damage

LED Indicators
Blue solid - Power good, “ON” output active

Input Connector
IEC320 inlet 3 pin

Output Connection
+pins 3,6,4,5 / -pins 1,2,7,8

Notes:
1. The characteristics defined are at ambient temperature of 25ºC unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in


80.00±0.50
166.00±0.50
178.00
43.60

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

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NOTE: This model has/The models in this products series have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by PHIHONG could void the user's authority to operate the equipment.