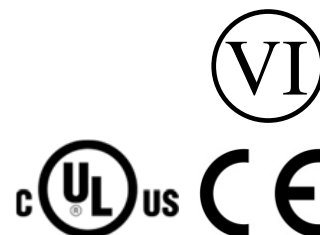


## Passive Power over Ethernet Midspan



### 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 <sup>1</sup>	
			Min.	Max. <sup>2</sup>	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<sup>1</sup>

### 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 90VAC

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 @25°C, 100-240VAC

#### Efficiency<sup>2</sup>

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 25°C unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in

**POE90U-560 Dimensions (mm)**

