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# 90W Single Port Power over Ethernet Midspan IEEE802.3BT Compliant Power Injector





#### **Features**

- IEEE802.3BT Compliant
- Diagnostic LEDs
- Compliant with Phihong Proprietary 12.5K Detection
- 1 Year Warranty
- SNMP Management Option
- Gigabit Compatible

- 4 Pair Powering +3,6,4,5 / 1,2,7,8
- Full Protection OCP, OVP
- Single Source 4 Pair Power Current Sharing
- Broken Wire Detection
- Limited Power Source

## **Applications**

- Satellite Receiver
- Wireless Network Access Points
- LCD Displays

- Security Cameras
- Kiosks
- Computer Workstations

### **Safety Approvals**

• cUL/UL • CE

## **Mechanical Characteristics (Standard Model)**

- Length: 166mm (6.53in)
- Width: 80mm (3.15in)

- Height: 44mm (1.73in)
- Weight: 500g(1.1lbs)

## **Output Specifications**

Model	DC Output Voltage	Load		Regulation <sup>2</sup>	
		Min.	Max. <sup>3</sup>	Line	Load
POE90U-1BT	56V	>15mA	1.6A	56VDC +1V/-2V	
POE90U-1BT-N <sup>1</sup>	56V	>15mA	1.6A	56VDC +1V/-2V	

#### Notes:

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

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### POE90U-1BT Characteristics

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**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 230VAC

**OUTPUT:** 

**Total Output Power** 

90W

**Ripple and Regulation** 

250mV max @25C, 100-240VAC

**Efficiency** 

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

60Hz

**Hold-up Time** 

10mS min. 120VAC 60Hz max load

**ENVIRONMENTAL:** 

**Temperature** 

Operation  $-20^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ Non-operation  $-20^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ 

Humidity 5 to 90%

**EMC** 

Complies with FCC Class B

Complies with EN55032 Class B

**Input Connector** 

IEC320 inlet 3 pin

**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

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** 

Meets UL requirements

**Short Circuit Protection** 

The output can be shorted permanently

without damage

**LED Indicators** 

No LED - Power failure

Green LED short Blinking - POE power ready

but no connection

Green LED solid - POE output power good

Green/Red LED alternate short blinking - POE

detection failure

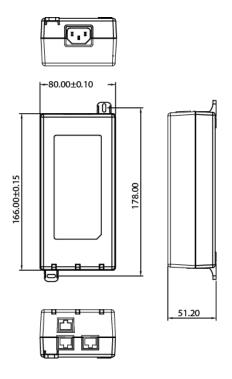
Green LED short/Red long blinking - POE

output over power or short

**Output Connection** 

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

## Case as featured with the SNMP Management option



# Case without the SNMP Management Option

