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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

#### Applications

- Satellite Receiver
- Wireless Network Access Points
- LCD Displays
- Safety Approvals

#### • cUL/UL

- **Mechanical Characteristics (Standard Model)** 
  - Length: 166mm (6.53in)
  - Width: 80mm (3.15in)

- 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
- Security Cameras
- Kiosks
- Computer Workstations

#### • CE

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

**Output Specifications** 

Model	DC Output Voltage	Load		<b>Regulation</b> <sup>2</sup>	
widdei		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**

**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 Non-operation

Humidity

## -20°C to +40°C -20°C to +65°C 5 to 90%

EMC FCC Part 15 Class B EN55022/EN55032 Class B

## **Input Connector**

IEC320 inlet 3 pin

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**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

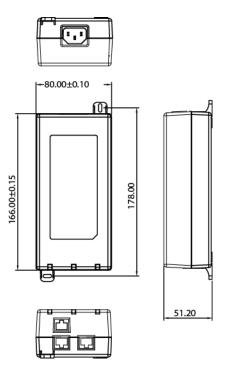
## **Output Connection**

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

# POE90U-1BT Dimensions (mm)

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Case as featured with the SNMP Management option



Case without the SNMP Management Option

