



## 60W 3-in-1 Single Port Media Converter IEEE802.3bt Compliant Power Injector



### Features

- Compliant with IEEE802.3bt/at/af Standard
- 60W POE Power
- Extends Ethernet to 200 Meters with copper, (can be even more with Fiber)
- Standard SFP Module Input
- Converts SFP to POE (converts fiber to copper)
- Gigabit Compatible
- 4 Pair Powering +3,6,4,5 / - 1,2,7,8
- Non-Vented Case
- Limited Power Source
- Full Protection OVP, OCP
- Single Source 4 Pair Power Current Sharing
- 1 Year Warranty

### Applications

- IP Telephones
- Wireless Access Points
- Bluetooth® Access Points
- Security Cameras
- IP Print Servers
- WiMAX® Access Points

### Safety Approvals

- cUL/UL 60950-1 & 62368-1
- CE

### Mechanical Characteristics

- Length: 160mm (6.30in.)
- Width: 180mm (7.09in.)
- Height: 50mm (1.97in.)
- Weight: 1.7Kg (3.75lbs)

### Output Specifications

Model	AC Input	DC Output Voltage	Load		Regulation <sup>1</sup>	
			Min.	Max. <sup>2</sup>	Line	Load
POE60S-1BT-R	IEC320(C14)	56V	<20mA	1.07A	+56VDC +1V/-2V (54-57VDC)	

Notes:

1. Voltage measured within 2" of the output RJ45 connector on data pairs 3,6(+) and 1,2(-) at 25°C
2. Combined output on data pairs and spare pairs. Otherwise 535mA on data pairs 3,6(+) 1, 2(-) and spare pairs 4,5(+) 7,8(-)

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications and contact information.

**INPUT:****AC Input Voltage Range**

90VAC to 264VAC

**AC Input Voltage Rating**

100 to 240VAC

**AC Input Current**

2.0A (RMS) max for 90VAC

1.0A (RMS) max for 240VAC

**Leakage Current**

3.5mA max @ 254VAC/50Hz

**AC Inrush Current**

40A (RMS) max for 115VAC

80A (RMS) max for 230VAC

**OUTPUT:****Total Output Power**

60W @40°C

**Output Ripple**

500mV max @25°C

**Efficiency**

75% (typical) at max load

**Hold-up Time**

16mS min. 120VAC/60Hz max load

**ENVIRONMENTAL:****Temperature**

Operation -10°C to +45°C @60W

+45°C to +55°C @30W

Humidity 5 to 90%

**EMI**

FCC Part 15 Class A

EN55032/22 Class A

EN50121-4

IEC 62236-4

**Immunity**

ESD: IEC61000-4-2. Level 3

RS: IEC61000-4-3. Level 3

EFT: IEC61000-4-4. Level 3

Surge: IEC61000-4-5. Level 3

CS: IEC61000-4-6. Level 3

PFMF: IEC61000-4-8 Level 5

Voltage Dips IEC61000-4-11

Harmonic: IEC61000-3-2 Class A

**Insulation Resistance**

Pri. to Sec.: &gt;10M OHM 500VDC

Pri. to F.G.: &gt;10M OHM 500VDC

**Dielectric withstand(HI-POT) test**

Pri. to Sec.: 4242VDC for 1min 10mA

Pri. to F.G.: 2121VDC for 1min, 10mA

**FEATURES:****Over Current Protection**

1350mA max

**Over Voltage Protection**

120VDC max

**LED Indicators****Led #1**

Blinking GREEN – Unit is “ON” Active with No Load

Solid GREEN – Unit has detected a Valid IEEE802.3at/IEEE802.3af Load/IEE802.3bt

Solid RED – Unit is in Over Load Condition or Unit has detected an Invalid Load

**Led #2**

Solid GREEN = AC Power Good

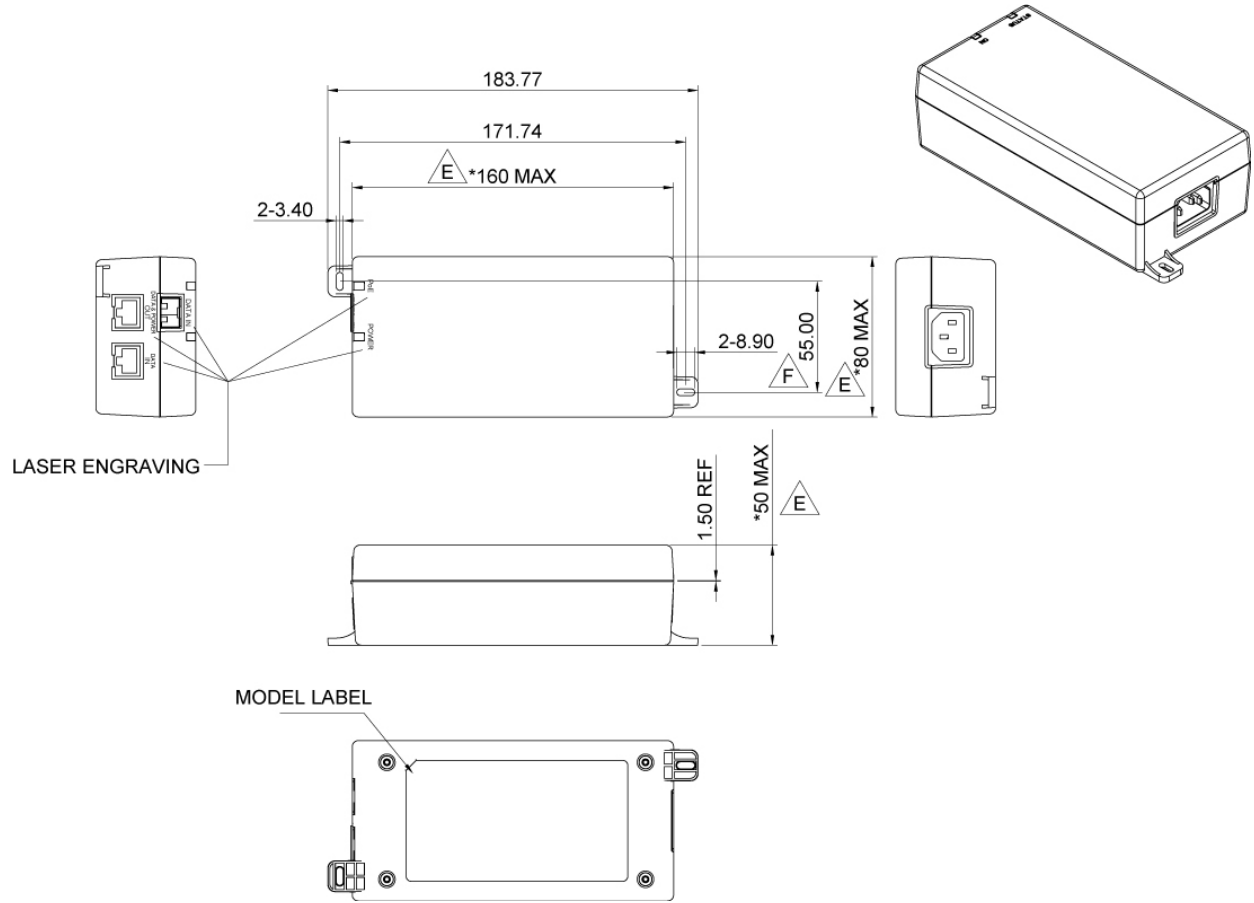
**Input Connector**

IEC320 inlet 3 pin(C14)

**Output Connection**

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

Dimension Diagram Unit:mm



**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.

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