



## 4-Port 240W Multi-Gig Power-over-Ethernet IEEE802.3bt Compliant Power Injector



### Features

- IEEE802.3bt Compliant
- Compliant with Phihong Proprietary 12.5K Detection
- Diagnostic LEDs
- 1 Year Warranty
- 2.5 Gigabit Compatible
- Shielded DC Jacks
- OCP, OVP and Short Circuit Protections
- Limited Power Source
- Broken Wire Detection
- Optional SNMP Management

### Applications

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

### Safety Approvals

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

### Mechanical Characteristics (Standard Model)

- Length: 224mm (8.82in)
- Width: 200mm (7.87in)
- Height: 48.5mm (1.91in)
- Weight: 1.59Kg (3.5lbs)

### Output Specifications

Model	# of Ports	Data Speed	DC Output Voltage	Load		Regulation		SNMP
				Min.	Max.	Line	Load	
POE240U-4BT-R	4	2.5G	56V	10mA	1.07A	53-57V		No
POE240U-4BT-N-R	4	2.5G	56V	10mA	1.07A	53-57V		Yes

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

90 to 264VAC

**AC Input Frequency**

47 to 63Hz

**AC Input Current**

5.0A (RMS) maximum for 90VAC

2.5A (RMS) maximum for 230VAC

**Leakage Current**

3.5mA maximum @ 264VAC 50Hz

**AC Inrush Current**

40A (RMS) maximum for 115VAC

80A (RMS) maximum for 230VAC

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

240W

**Ripple and Regulation<sup>2</sup>**

200mV max @25°C, 100-240VAC

**Efficiency<sup>3</sup>**

75% (typical) at Max. load, 120VAC 60Hz

**Hold-up Time**

10mS min. 120VAC 60Hz max load

**ENVIRONMENTAL:****Temperature**

Operation 0°C to +40°C

Non-operation -20°C to +65°C

Humidity 5 to 90%

**EMC**

Complies with FCC Class B

Complies with EN55032 Class B

**Immunity**

ESD: IEC61000-4-2 Level 3

RS: IEC61000-4-3 Level 2

EFT: IEC61000-4-4 Level 2

Surge: IEC61000-4-3 Level 3

CS: IEC61000-4-3 Level 2

Voltage Dips IEC61000-4-11

Harmonic: IEC61000-3-2 Class A

**Insulation Resistance**

Primary to Secondary: &gt;10M OHM, 500VDC

Primary to Earth Ground: &gt;10M OHM, 500VDC

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

Output #1(OUT) &lt;650mA

Output #2(OUT) &lt;650mA

Output #1 and #2 combined(OUT) &lt;1300mA

For 12.5K, Output #1 &amp; #2(OUT) &lt;1300mA

**Over Voltage Protection**

120V for &lt;0.2 seconds

**Short Circuit Protection**

The output can be shorted permanently without damage

**LED Indicators**

Solid Green – detection/connection valid &amp; output “ON”

Blink Red – Fault Condition (over current or shorted)

Blink Red &amp; Green – Detection is invalid

**Input Connector**

IEC320 inlet 3 pin

**Output Connection**

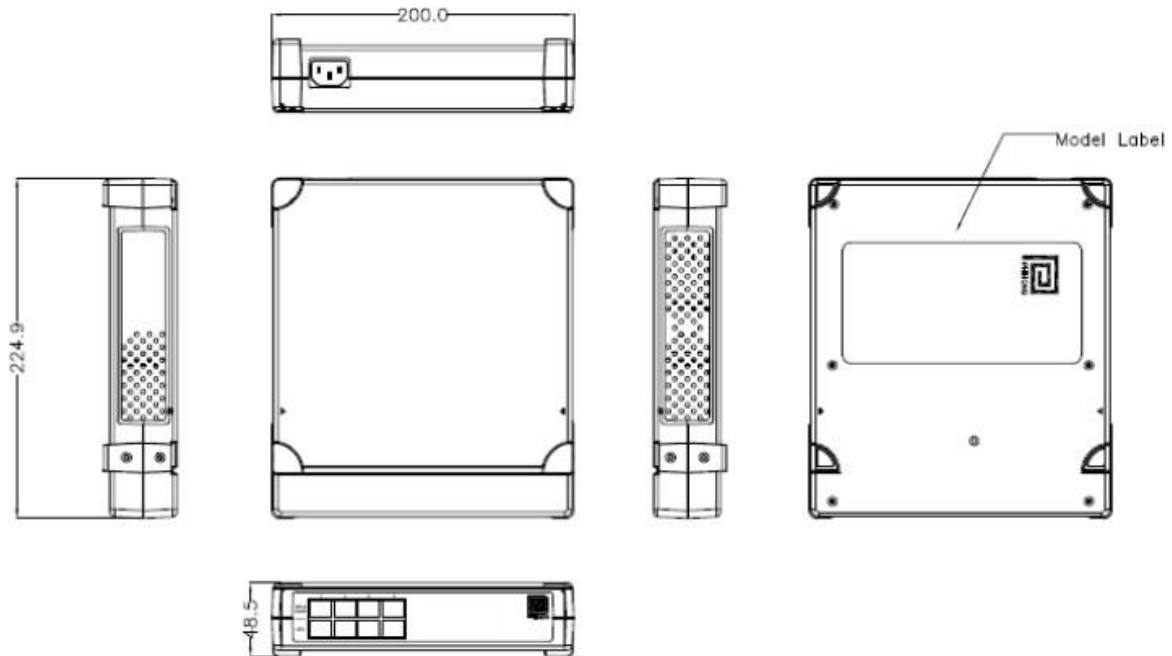
Female RJ45

Data input: Bottom Row Port

Power/Data Output: Top Row Port

**Notes:**

1. The specifications defined are at ambient temperature of 25C, unless otherwise specified.
2. Measured within 2 inches of RJ45 with by-pass capacitors 0.1uf/10uf at output connector terminal & oscilloscope set at 20Mhz (tested by oscilloscope).
3. Efficiency is measured after 30 minutes burn-in.





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

Phihong USA Corporation  
47800 Fremont Boulevard  
Fremont, CA 94538  
Telephone: (510) 445-0100  
[www.phihong.com](http://www.phihong.com)

*This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*