



## 45W DC-DC Power over Ethernet Splitter POE45 Gigabit 12.5K Detection Splitter



### Features

- Designed to work with POE75U-1UP-R with 12.5k Detection Single Port Injectors
- Non-Vented Case
- Gigabit Compatible
- Diagnostic LEDs
- Full Protection OCP, OVP
- 12.5K Detection PSE Only
- 1 Year Warranty

### Applications

- WiMax Access Points
- Last Mile Wireless
- Computer Workstations
- Multi Radio Access Points

### Safety Approvals

- CE

### Mechanical Characteristics

- Length: 140mm (5.51in)
- Width: 65mm (2.56in)
- Height: 36mm (1.42in)
- Weight: 200g (7.05oz)

### Output Specifications

Model	DC Output Voltage	Load
POE45-120-R	12V	3.75A

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:**

**Input Voltage Range**

Operates with POE75U-1UP-R 12.5k model only. 47-57V DC

**Input Current**

1.3A (RMS) maximum

**OUTPUT:**

**Regulation**

Line and Load  $\pm 2\%$

**Ripple**

120mV maximum at 25°C

**Efficiency**

83% minimum at full load and 48V DC

**O/P Voltage Protection**

In case of output voltage overload, output will shutdown, and then auto restart  
Output can be shorted permanently without damage

**ENVIRONMENTAL:**

**Temperature**

Operation	0 to +40°C
Non-operation	-20 to +65°C
Humidity	5 to 90%

**Immunity**

ESD: EN61000-4-2 Level 3  
RS: EN61000-4-3 Level 2  
Note: RS and CS tested with POE60U

**EMC**

EN55022 Class A  
FCC Part 15, Class A

**Dielectric Withstand (HI-POT) Test**

Primary to secondary: 2121V DC for 1 minute, 10mA

**FEATURES:**

**Indicators**

LED 1 – Output “ON”  
LED 2 – Power received via Data  
LED 3 – Power received via Spare Pair

**Insulation Resistance**

Primary to secondary: >10M Ohm 500V DC

**Input and Output Data Connector**

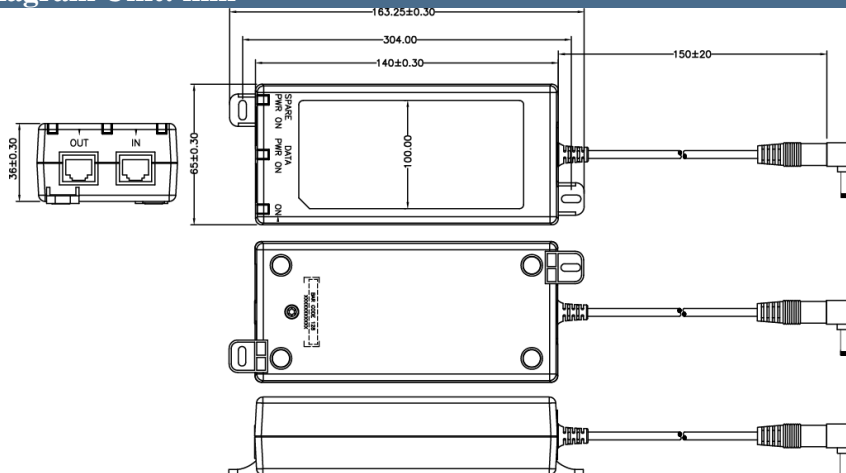
RJ45

**Output Connector**

Center Positive Barrel 12mm x 2.1mm x 5.5mm Tip is user changeable for other sizes



**Dimension Diagram Unit: mm**



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**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.