



## 45W DC-DC Power over Ethernet Splitter POE45 Gigabit IEEE802.3at Compliant Splitter



**InterOperability Laboratory**  
Part of the University of New Hampshire Research Computing Center



### Features

- IEEE802.3at Pre-standard
- Non-Vented Case
- Gigabit Compatible
- Designed to work with the POE60U and POE75U Single Port Injectors
- Proprietary Detection, Disconnect and Overload Protection
- Full Protection OCP, OVP
- Diagnostic LEDs
- 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 | 12V               | 3.75A |

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## POE45 Characteristics

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### INPUT:

#### Input Voltage Range

Operates with POE60U-560G or POE75U-1UP  
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

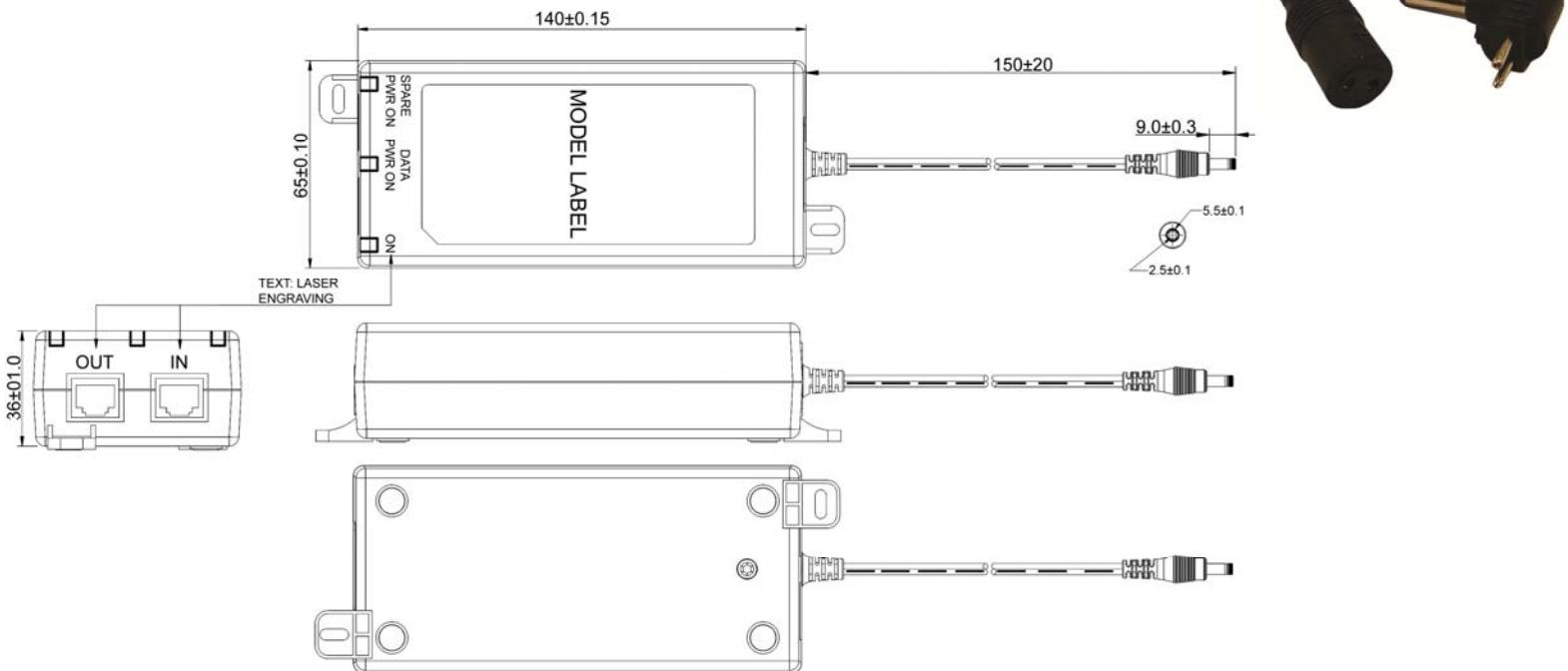
Operation 0 to +40°C

Non-operation -20 to +65°C

#### Humidity

Operation 5 to 90%

## Dimension Diagram Unit: mm



### 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

### 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

### Warranty

1 Year

### 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

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