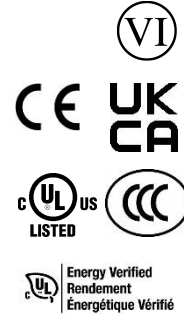




90W High Surge IEEE802.3bt PoE Injector



Features

- IEEE802.3bt Complaint
- DOE VI Compliant
- 4kV L-L and 4kV L-PE Surge; 6kV Output Surge
- 10G Data Speed
- Limited Power Source
- Full Over-Voltage and Over-Current Protection
- Short Circuit Protection
- Non-Vented Case
- 1 Year Warranty

Applications

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

Safety Approvals

- cUL/UL 62368-1
- CCC
- IEC 62368-1

Mechanical Characteristics (not including mounting tabs)

- Length: 166mm (6.53in.)
- Width: 80mm (3.14in.)
- Height: 44mm (1.72in.)
- Weight: 500g(17.63oz)

Output Specifications

Model	Data Speed	Output Power	DC Output Voltage	Load (Combined)		Regulation ¹		Ripple ²
				Min.	Max.	Line	Load	
POE90U-BTAX460-R	10G	90W	56V	10mA	1.6A	54-57V		200mV

INPUT:

AC Input Voltage Range
90 to 264VAC

AC Input Current
2.5 Arms maximum at 90VAC @Max. load

AC Input Frequency
47Hz to 63Hz

Leakage Current
3.5mA max @264V, 50Hz

OUTPUT:
Output Power
90W (Combined)

Hold up Time
10mSec min at max load at 120VAC, 60Hz

Efficiency²
DOE Level VI

ENVIRONMENTAL

Temperature
Operating -20°C to +40°C
Operating Humidity 10% to 90% RH

EMI
EN 55032/CISPR 32 Class B, FCC Part 15
Class B and CAN ICES-003(B)/NMB-003(B)
Issue 7 Class B.

Immunities
EN 55035/CISPR 35
IEC61000-4-2 (ESD) 8KV Contact/15KV Air
IEC61000-4-3 (RS) Level 3, 3V/m, Criteria A
IEC61000-4-4(EFT) 1KV Input, 0.5KV
Output
IEC61000-4-5 (Surge) 4KV L-L, 4KV L-PE;
6kV Output Surge
IEC61000-4-3 (CS) Level 3, 3V
IEC61000-4-11 (Dips) Class 3
IEC61000-3-2 (Harmonic) Class A

Isolation (HI-POT)
4242VDC for 1 minute, 10mA

Insulation Resistance
Primary to secondary: >10M Ohm 500VDC

MTBF (MIL HDBK-217F)
100K HRS Min @ Max Load

FEATURES:
Over Voltage Protection
Non-latching

Over Current Protection (Combined)
≤ 2000mA Max for 25K
≤ 2200mA Max for 12.5K

Short Circuit Protection
The output can be shorted permanently
without damage, Non Latching

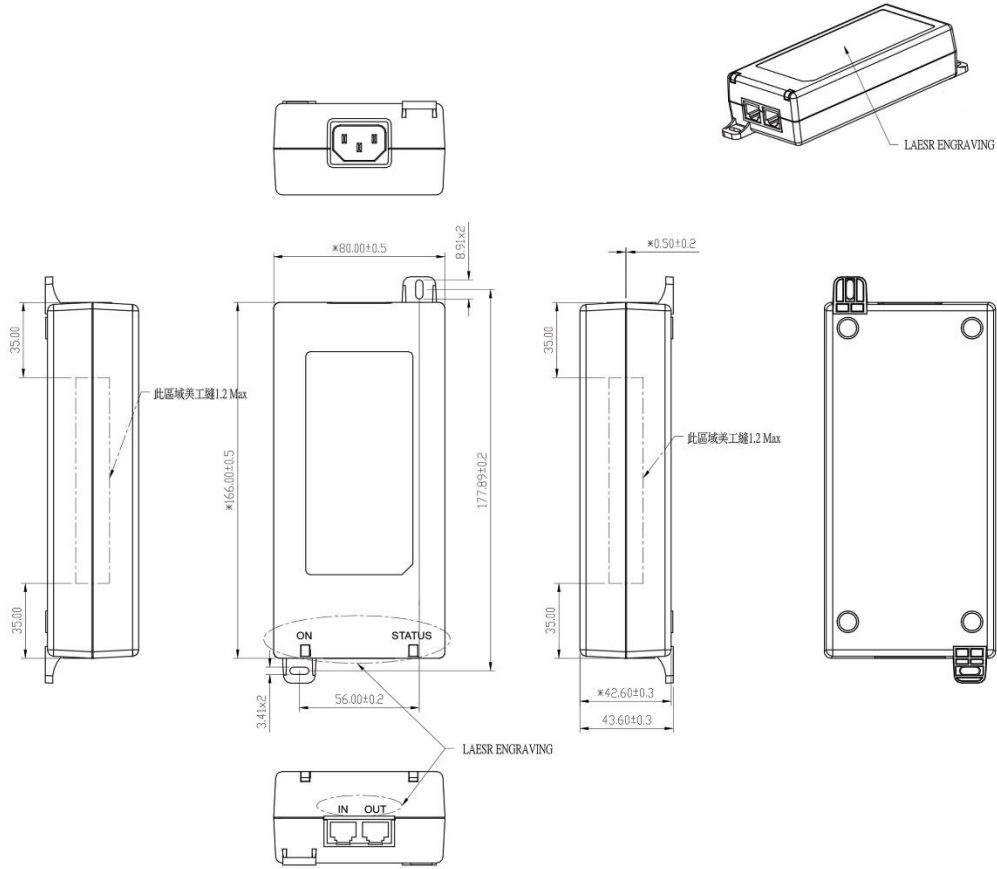
LED Indicators
LED #1 Blue Solid – Power Good “ON”
LED # 2 (Bi-Color Amber/Green)
LED Amber:
Flash short and slow – No Connection
Flash long and fast – Fault Condition
Flash with Green – Invalid
Connection/Detection
LED Green
Solid – Valid Connection/Detection and load
Flash – Invalid load condition (<10mA)

AC Input Connector
IEC320 C14

DC Output
Combined Pairs 3,4,5,6 (+) & 1,2,7,8 (-)

Notes:

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. 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

This device complies 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.