



## 30W Single Port Power over Ethernet Midspan IEEE802.3at Compliant Power Injector



### Features

- Compliant with IEEE802.3at Standard
- Non-vented Case
- Full Protection OVP, OCP
- 1 year warranty
- Limited Power Source
- Gigabit Compatible
- Shielded RJ45

### Applications

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

### Safety Approvals

- cUL/UL(60950)/(62368-1)
- CB
- CCC
- BSMI
- EAC
- IRAM(TUV-s)
- CE(IEC60950-1)/(IEC62368-1)
- RCM
- NOM/NYCE
- PSB
- KC+KCC
- BIS

### Mechanical Characteristics

- Length: 140mm (5.51in.)
- Width: 65mm (2.55in.)
- Height: 36mm (1.42in.)
- Weight: 0.22Kg (7.76oz)

### Output Specifications

Model	AC Input	DC Output Voltage	Load		Regulation	
			Min.	Max.	Line	Load
POE29U-1AT(PL)D-R	Three Wire	56V	10mA	536mA	54-57V	

**INPUT:****AC Input Voltage Rating**

100 to 240VAC

**AC Input Voltage Range**

90 to 264VAC

**AC Input Current**

0.8A (RMS) maximum at 120VAC

0.55A (RMS) maximum at 240VAC

**AC Input Frequency**

47 to 63Hz

**Leakage Current**

3.5mA max

**Max In-rush Current**

60A max at 240VAC and max load (Cold Start at ambient 25°C)

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

30W

**Hold up Time**

10mSec min at max load at 120VAC, 60Hz

**Efficiency<sup>2</sup>**

80% Typical at max load at 120VAC, 60Hz

**ENVIRONMENTAL:****Temperature**

Operating -20°C to +50°C

Non-operating -20°C to +70°C

Relative Humidity 5 to 90%

**EMI**

Complies with EN55032 Class B

Complies with FCC part 15 Class B

**EMC**

ESD: IEC61000-4-2, Level 3

RS: IEC61000-4-3, Level 3

EFT/Burst: IEC61000-4-4, Level 2

Surge: IEC61000-4-5, Level 3

CS: IEC61000-4-6, Level 3

Voltage Dips: IEC61000-4-11

Harmonic: IEC61000-3-2, Class A

**Isolation (HI-POT)**

Primary to secondary: 1500VAC for 1 minute, 10mA

**Insulation Resistance**

Primary to secondary: 10M Ohm 500VDC

**FEATURES:****OCP/OVP/Short Circuit Protection**

OCP: ≤750mA Max

OVP: Latching

Short Circuit: The output can be shorted permanently without damage. Non-latching auto recovery.

**Indicator***Solid Green:* unit has detected a

IEEE802.3at or af load/PD

*Blinking Green:* Power “ON” ready for connection*Fast Blinking Amber/Green:* Invalid load connected*Slow Blinking Amber/Green:* fault**AC Input Connector**

IEC320 C14 - three wire

**Output Connection**

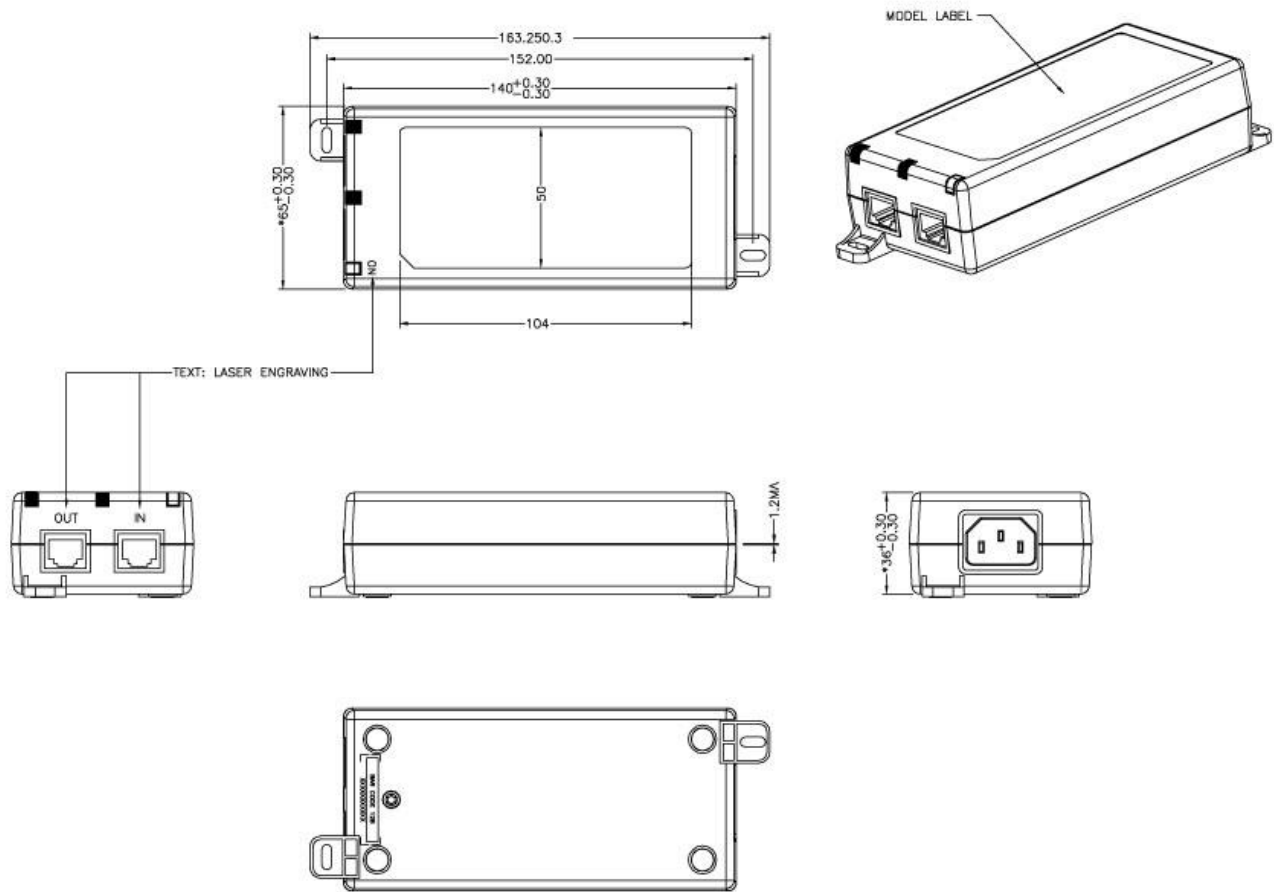
+pins 3,6 / -pins 1,2

**Data IN/POE OUT Connector**

Shielded RJ45

## Notes:

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. Efficiency is measured after 30minutes burn-in





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

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*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.*

# Mouser Electronics

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