



## 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  
CU(EAC)  
IRAM(TUV-s)

CE(IEC60950-1)/(IEC62368-1)  
RCM  
NOM/NYCE  
PSB  
KC+KCC  
EAC

### Mechanical Characteristics

Length: 140mm (5.51in.)  
Width: 65mm (2.55in.)

Height: 36mm (1.42in.)  
Weight: 0.2Kg (7.58oz)

### 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	

Phihong is not responsible for any error, and reserves the right to make changes without notice.

## POE29U-1AT(PL)D-R Characteristics

### 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**  
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:  $\leq 750\text{mA}$  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

**Dimensional Diagram Unit: mm**

