



## 20W Single Port Power over Ethernet Midspan IEEE802.3AF Compliant Power Injector



### Features

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

### Applications

- IP Telephones
- Wireless Access Points
- Bluetooth<sup>®</sup> Access Points
- Security Cameras
- IP Print Servers
- WiMAX<sup>®</sup> Access Points

### Safety Approvals

- cUL/UL
- CE

### 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-1AF	Three Wire	56V	10mA	357mA	±5%	
POE29W-1AF	Two Wire	56V	10mA	357mA	±5%	

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**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**

350uA maximum for U models

250uA maximum for W models

**Max In-rush Current**

60A maximum at 240VAC and maximum load

(Cold Start at ambient 25°C)

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

20W

**Hold up Time**

10mSec minimum at maximum load at 120VAC, 60Hz

**Transient O/P Voltage Protection**

60V maximum at switch on/off at any AC line phase

**Efficiency**

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

**ENVIRONMENTAL****Temperature**

Operation -20 to +50°C

Non-operating -20 to +70°C

Humidity 5 to 90%

**EMI**

EN55022 Class B

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:****Over Voltage/Current, Short Circuit Protection**

The output can be shorted permanently without damage.

**Indicators**

Solid Green: Valid IEEE802.3af load detected and connected "ON"

Blinking Green: Power "ON" ready for connection

Blinking Green/Red: Invalid load connected

Blinking Red/Green: fault

**AC Input Connector**

IEC320 C14 - U Models – three wire

IEC320 C8 – W Models – two wire

**Output Connection**

+pins 3,6 / -pins 1,2

**Data IN/POE OUT Connector**

RJ45

**Dimension Diagram Unit: mm**

