



## 19.6W Single Port Power over Ethernet Midspan IEEE802.3af Compliant Power Injector



### Features

- Compliant with IEEE802.3af Standard
- Non-vented Case
- Full Protection OVP, OCP
- Limited Power Source
- Gigabit Compatible
- 1 Year Warranty

### Applications

- IP Telephones
- Wireless Access Points
- Bluetooth® Access Points
- Security Cameras
- IP Print Servers
- WiMAX® 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
POE21U-1AF <sup>1</sup>	Three Wire	56V	10mA	350mA	±5%	

Notes: (1) Consult factory for availability

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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) max at 120VAC

0.55A (RMS) max at 240VAC

**AC Input Frequency**

47 to 63Hz

**Leakage Current**

350uA max

**Max In-rush Current**

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

**OUTPUT:**

**Output Power**

19.6W

**Hold up Time**

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

**Transient O/P Voltage Protection**

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

**Efficiency**

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

**ENVIRONMENTAL:**

Temperature

Operating 0 to +40°C

Non-operating -20 to +65°C

Humidity 5 to 90%

**EMI**

Complies with FCC part 15 Class B

Complies with EN55032 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 Level3

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:**

**Cisco**

No extern parts required for Legacy devices:

VoIP Phones: 7910, 7912, 7940, 7960

Access Points: 1040, 1140, 1250, 1260,3500

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

The output can be shorted permanently  
without damage.

**Indicator (Status)**

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

Blinking Green: Power "ON" ready for  
connection

Blinking Red/Green: Invalid load connected

Blinking Red: fault

**AC Input Connector**

IEC320 inlet 3-pin C14

**Output Connection**

+pins 3,6 / -pins 1,2

**Data IN/POE OUT Connector**

RJ45

**Dimension Diagram Unit: mm**

