



## 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

- CE
- cUL/US

### 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 | Three Wire | 56V               | 10mA | 350mA | ±5%        |      |
| POE21W-1AF | Two Wire   | 56V               | 10mA | 350mA | ±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**  
U Model – 350uA maximum  
W Model – 250uA maximum

**Max In-rush Current**  
60A maximum at 240VAC and maximum load  
(Cold Start at ambient 25°C)

**OUTPUT:**  
**Output Power**  
19.6W

**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

**Environment**  
Operating Temperature 0 to +40°C  
Non-operating Temperature -20 to +65°C

Relative 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:**
**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 is equipped with short-circuit protection and overload protection as per the IEEE 802.3af specification and conforms to UL60950-2. 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**

U models - IEC320 inlet 3-pin C14  
W models – IEC320 inlet 2-pin C8

**Output Connection**

+pins 3,6 / -pins 1,2

**Data IN/POE OUT Connector**

RJ45

**Warranty**

1 Year

**Dimension Diagram Unit: mm**
