

## 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
- Cisco AP1250 Full Power Support
- 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
POE31U-1AT Three	Wire	56V	10mA	535mA	±5%	
POE31W-1AT Two	Wire	56V	10mA	535mA	±5%	

## POE31X-1AT 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

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

30W

#### 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: I EC61000-4-2 Lev el 3

RS: I EC61000-4-3 Lev el 3

EFT/Burst: I EC61000-4-4 Level 2

Surge: I EC61000-4-5 Lev el 3

CS: I EC61000-4-6 Lev el 3

Voltage Dips: IEC61000-4-11

Harmonic: IEC6 1000-3-2 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 802.3at specification and conforms to UL60950-2. The output can be shorted permanently without damage.

### Indicator

Solid Green: Valid IEEE802.3at 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 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

### Warranty

1 Year

### Dimension Diagram Unit: mm

