

POE INJECTOR



APPLICATIONS

- IP Telephones
- Security Cameras
- Wireless Network Access Points
- IP Print Servers
- Blue Tooth Access Points

FEATURES

- Fully Compliant Detection, Disconnect,
- Overload and Voltage Control IEEE802.3af
- UNH IOL Test Report
- Diagnostic LEDs
- Data and Power Carried over One Ethernet Cable
- Full Protection OTP, OCP, OVP
- Non-Vented Case
- Internal Signature Resistance IEEE802.3 standard
- Guaranteed Protection
- 1 Year Warranty

SAFTY APPROVALS

- cUL/UL
- SAA
- CE
- VCCI
- S-Jet
- C-Tick

MECHANICAL CHARACTERISTICS

- Length: 140mm (5.51in)
- Height: 36mm (1.42in)
- Width: 65mm (2.55in)
- Weight: 0.2Kg (0.44lb.)

MODELS	DC OUTPUT VOLTAGE	LOAD		REGULATION	
		Min.	Max.	Line	Load
A-POE-INJECTOR-0	48V	0A	0.32A	±4%	



A-POE-INJECTOR-0 CHARACTERISTICS

INPUT:

AC Input Voltage Range 90 to 264VAC AC Input Voltage Rating 100 to 240VAC AC Input Current 0.5A (RMS) maximum for 90VAC 0.35 A(RMS) maximum for 240VAC Leakage Current 0.25mA maximum @ 254VAC 60Hz AC Input Frequency 47-63Hz AC Inrush Current 15A (RMS) maximum for 115VAC 20A (RMS) maximum for 230VAC

OUTPUT:

Total Output Power 15.4W Ripple and Regulation 100mV maximum Efficiency 65% (typical) at maximum load, and 120VAC 60Hz Hold-up Time 16mS min. 120VAC and maximum load Transient O/P Voltage Protection 60V maximum at switch on and off at any AC line Phase

ENVIRONMENTAL:

TemperatureOperation0 to +40°CNon-operation-25 to +65°CHumidityOperation5 to 90%

EMC

FCC Part 15 Class B EN55022 Class B VCCI, C-Tick **Isolation Test** Primary to Secondary: 3000VAC for 1 minute 10mA Primary to Field Ground: 1500VAC for 1 minute Output to Field Ground: 1500VAC Immunity EN50082-1 ESD: EN61000-4-2. Level 3 RS: EN61000-4-3. Level 2 EFT: EN61000-4-4. Level 2 Surge: EN61000-4-5. Level 3 CS: EN61000-4-6. Level 2 Voltage Dips EN61000-4-11 Harmonic: EN61000-3-2 Insulation Resistance Primary to Secondary: >10M OHM 500VDC Primary to Field Ground: >10M OHM 500VDC

FEATURE:

Over Voltage/Current, Short Circuit Protection Outputs equipped with short circuit protection and overload protection as per 802.3af specifications The output can be shorted permanently without damage Indicators Green LED 1: Power detected "ON" Red LED: Fault detected Green LED 2: Valid IEEE802.3af load detected and connected Input Connector IEC320 inlet 3 pin Warranty 1 Year

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Description of LED Functions for Power Injector

Power-up Sequence:

Upon power-up, all 3 LEDs will light for 2 seconds, as part of the self-test for the internal microprocessor software. After the 2 second period, the "ON" LED will illuminate green. The DC output voltage is now available for powering a compliant load (to the 802.3af PoE standards).

Detection Sequence:

Once a compliant load is attached to the output RJ45 connector, the green "CONNECT" LED will illuminate. Should the load be non-compliant then the LEDs will blink a code specific to the cause for nondetection.

Detection Failure Codes:

- 1. Incorrect resistive signature The green "CONNECT" and red "FAULT" LEDs will blink 3 times.
- 2. Incorrect capacitive signature The green "ON" LED will blink 3 times.
- 3. Incorrect Voffset The green "CONNECT" and green "ON" LEDs will blink 3 times.
- 4. Unstable current measurement The green "ON" LED will blink 3 times
- 5. Low voltage sensed during detection (overload) The red "FAULT" LED will blink 3 times. After the LEDs blink 3 times the Power Injector will continue to try to detect a valid load. Until the correct load is applied, the LEDs will continue to blink. If there is an open circuit connected to the output RJ45 then the LEDs will not blink but the Power Injector will continue to try to detect a valid load.

Fault Sequence:

Should there be a fault such as an overload or short circuit then the red "FAULT" LED will illuminate. The red "FAULT" LED will illuminate for 2 seconds and then go off as the power supply tries to redetect a valid load. If there is a problem detecting the load, the LEDs will indicate a possible fault as per the codes in the section above.