

## Sapling PoE Injector - V2.0

### Applications:

- PoE Clocks
- IP Telephones
- Security Cameras
- Wireless Network Access Points

### Mechanical Characteristics:

- Length: 106mm (4.17in)
- Height: 27mm (1.1in)
- Width: 40mm (1.57in)
- Weight: 0.1Kg (3.5oz.)

### 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, OVP
- Internal Signature Resistance IEEE802.3 standard

### Safety Approval:

- cUL/UL
- CE



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### 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

30A (RMS) maximum for 115VAC

60A (RMS) maximum for 230VAC

#### OUTPUT:

##### Total Output Power

15.4W

##### Ripple and Regulation

200mV max @25C, 115VAC, 60Hz & 230 VAC, 50Hz

##### Hold-up Time

16mS min. at max load and 120VAC 60Hz

#### ENVIRONMENTAL:

##### Temperature

Operation -20°C to +50°C

Non-operation -25°C to +70°C

##### Humidity

Operation 5 to 90%

##### EMC

FCC Part 15 Class B

EN55022 Class B

#### 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 Class A

#### Isolation Test

Primary to Secondary: 3000VAC for 1 minute

10mA

#### Insulation Resistance

Primary to Secondary: >10M OHM 500VDC

Primary to Field Ground: >10M OHM 500VDC

#### FEATURES:

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

Outputs equipped with short circuit protection and overload protection as per 802.3af specifications. UL60950-1 compliant. The output can be shorted permanently without damage

##### Indicators

Solid green - Valid PoE load detected.

Blinking green - Power on, no PoE load.

Blinking green followed by solid red - Over Load

Blinking red followed by solid green - Invalid load type

##### Input/Output Connector type

RJ45

#### Ordering Information:

POE Injector: A-POE-INJECTOR-0