

PoE Power Injector, 802.3at

The new PoE power injector 802.3at is used with CyberData's new V2 Paging Amplifier (Part # 011061) and V2 Loudspeaker Amplifiers (AC - Part #011095 and Wireless - Part #011096) to provide up to 25 watts of driving power.

The Power Injector 802.3at eliminates the need for a PoE enabled hub. In a typical installation, the Power Injector is connected between a non-PoE hub and a CyberData paging device, providing inline power capability to an Ethernet Cat 5 cable.



Output Specifications

Model	DC Output Voltage	Load		Regulation	
		Min.	Max.	Line	Load
POE36U-1AT	56V	0A	0.60A	54-57Vdc under all conditions	

Specifications

Boxed Weight	0.5 lbs.
Dimensions	Length: 5.51 inches [140mm] Width: 2.55 inches [65mm] Height: 1.42 inches [36mm]

Part Number 011124

The PoE Power Injector can be used with the following products:

V2 Paging Amplifier	011061
Loudspeaker Amplifier, AC	011095
Loudspeaker Amplifier, Wireless	011096
V2 Paging Amplifier (Singlewire-enabled)	011085
Loudspeaker Amplifier, AC (Singlewire-enabled)	011115

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Detailed Specifications

INPUT:

AC Input Voltage Range
90 to 264VAC

AC Input Voltage Rating
100 to 240VAC

AC Input Current
1.0A (RMS) and 90VAC at maximum load
.55A (RMS) and 240VAC at maximum load

AC Input Frequency
47 to 63Hz

OUTPUT:

Total Output Power
33.6W

DC Offset
No Data degradation with DC imbalance 18mA

Ripple and Regulation
100mV maximum

Efficiency
78% (typical) at maximum load, and 120VAC 60Hz

Transient O/P Voltage Protection
60V maximum at switch on and off at any AC line phase

ENVIRONMENTAL:

Temperature
Operation -20 to +50°C
Non-operation -20 to +65°C

Humidity
Operation 5 to 90%

EMC

FCC Part 15 Class B
EN55022 Class B

Isolation Test

Primary to Secondary: 4242 VDC for 1 minute 10mA
Primary to Field Ground: 2121VDC for 1 minute
Output to Field Ground: 2121VDC

Immunity

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 802.3at specification
The output can be shorted permanently without damage

Indicators

Green LED 1: Input power "ON"
Green LED 2: Valid IEEE802.3at load detected and connected "PoE PLUS"
Green LED 3: Valid IEEE802.3af load detected and connected

Input Connector

IEC320 3 pin

Output Connection

+pins 3, 6
-pins 1, 2