



### **"CARRIER CLASS" POWER OVER ETHERNET SYSTEM**

The POE-55iG-AFI is an advanced 802.3af compliant, non-proprietary power supply/injector. The power supply is autoranging on the input and has a regulated voltage output with overload and short-circuit protection. It functions with any equipment compliant with the IEEE 802.3af POE standards. The POE-55iG-AFI does not include the intelligent detection algorithms detailed in the 802.3af spec, meaning it will power up any device connected to it. The power is supplied on Ethernet pins 4/5 (V+) and 7/8 (V-) and comes complete with a standard North American 115VAC power cord. International cords are available upon request.

Using power over Ethernet to power remote devices has several advantages including:

- The power supply can be centrally located where it can be attached to an uninterruptible power supply.
- The user has the ability to easily power on and reset the attached equipment from a remote location.
- There is no need to run additional power cabling to the device as power can be supplied over the CAT5 Ethernet cable.
- The power supply can power a remote device up to 300 feet away, limited only by the Ethernet standard.

### **FEATURES**

- "Carrier class" power over Ethernet system
- Autoranging power supply/ injector
- Built-in Ethernet surge protection to prevent equipment damage
- Overload and short-circuit protection
- Minimum cross-talk and insertion loss
- Advanced switching technology – runs cool
- Powers clients that accept power on unused Ethernet pins 4,5,7,8
- FCC and CE approved
- Current indicator (CI) option available

### **MARKETS**

- Remote routers, access points, and bridges
- Remote networking equipment
- Remote camera systems
- 400 MHz to 10 GHz systems
- SOHO equipment
- IP phone systems

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### SPECIFICATIONS

Input Voltage:	90 – 264VAC @ 47 – 63Hz
Input Current:	0.85A @ 120VAC 0.93A @ 230VAC
Efficiency:	78% min at Full Load, 120Vac and 230Vac Input Voltage
Output Voltage:	+55V
Maximum Load:	0.55A Min
Power	30W
Minimum Load:	0.01A Min
Output Noise:	1%
Output Ripple:	1%
Line Regulation:	1%
Load Regulation:	5%
Short Circuit Protection:	Output short GND terminal will not damage the power supply and will auto-reset. Input has fuse protection.
Safety Standards:	Meets UL1950, CSA 22.2 and TUV EN60950
EMC:	Meets FCC Class B , NE55022 Class B
Over Current:	120% ~ 160% @120Vac Input F.L
Operating Temperature:	-25 to +65 deg C
Storage Temperature:	-40 to +80 deg C
Operating Humidity:	5% to 90%
Cooling:	Free air cooling
Size (L x W x H):	125 x 75 x 38mm
LED (Green):	Include PWR-OK

Note 1: Noise bandwidth is from DC to 20Mhz. Ripple & Noise is measured by Paralleling a 0.1uF metalize capacitor on the test point.

RJ-45 INPUT (DATA ONLY)			RJ-45 OUTPUT (DATA & POWER)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive	RX+	Data Receive
2	RX-	Data Receive	RX-	Data Receive
3	TX+	Data Transmit	TX+	Data Transmit
4	Data	Data	+Vdc	power(+)+Data
5	Data	Data	+Vdc	power(+)+Data
6	TX-	Data Transmit	TX-	Data Transmit
7	Data	Data	-Vdc	power(-)+Data
8	Data	Data	-Vdc	power(-)+Data

Note : 1. DC output gnd and Vin+/- should not be shorted to ground(FG).

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Power Supply Inserter AC Power IN  
(90-264VAC)@120V/230



Power Supply Inserter Data IN      Power Supply Inserter Data/POE OUT