



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

The POE-55iG-ATI is an advanced 802.3at 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 802.3at POE standards. The POE-55iG-ATI includes the intelligent detection algorithms detailed in the 802.3at 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 115 VAC 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
- WiMAX

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### SPECIFICATIONS

Input Voltage:	90 – 264 VAC @ 47 – 63 Hz
Input Current:	0.75 A @ 120 VAC at full load 0.39 A @ 230 VAC
Efficiency:	80% min at full load, 120 VAC
Output Voltage:	+56 V
Maximum Load:	0.625 A
Power	35 W Max
Minimum Load:	0 A
Output Noise:	2%
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-recover when load status returns to normality
Safety Standards:	Meets UL1950, CSA 22.2 and TUV EN60950-1
EMC:	Meets FCC Class B , NE55022 Class B
Over Current:	150% ~ 200% @ 90 V ~240 VAC
Operating Temperature:	-25° to +50°C
Storage Temperature:	-40° to +80°C
Operating Humidity:	5% to 90% RH (non-condensing)
Cooling:	Free air cooling
Size (L x W x H):	125 x 75 x 38 mm
LED (Green):	POE normal output to 802.3 at application

Note 1: Ripple and noise bandwidth is from DC to 20 MHz. Terminated with a 47uF capacitor and 0.1uF MPE capacitor of proper polarity.

RJ-45 INPUT (DATA ONLY)			RJ-45 OUTPUT (DATA & POWER)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+	+Vdc + BI_DC+	power (+) + Data Pair C+
5	BI_DC-	Data Pair C-	+Vdc + BI_DC-	power (+) + Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+	-Vdc + BI_DD+	power (-) + Data Pair D+
8	BI_DD-	Data Pair D-	-Vdc + BI_DD-	power (-) + Data Pair D-

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

ANT-DS-POE-Gigabit-AT 0611

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



**Power Supply Inserter**  
**Data IN**

**Power Supply Inserter**  
**Data/POE OUT**