POWER-OVER-ETHERNET

Power Supply / Inserter

The POE-xxi is an advanced power supply / power inserter. The power supply is autoranging on the input and has a regulated voltage output. It has overload and short circuit protection in addition to Ethernet surge suppression built-in. The POE-xxi is not a proprietary unit. It will function with any equipment that is compliant with the IEEE 802.3af POE standards. For all “i” models, the power is supplied on ethernet pins 4/5 (V+) and 7/8 (V-). For the “iR” models, the power is supplied on Ethernet pins 4/5 (V-) and 7/8 (V+). The POE-xxi comes complete with a standard North American 115 VAC power cord. International cords are available upon request. A Current Indicator (-CI) model is available. The LED will be AMBER until >35 mA current flows to the end device which will turn the LED to GREEN. This is a good way to remotely monitor the connection between the Power-Over-Ethernet (POE) and the end device, and to indicate that the end device is turned on. To order this model, add a “-CI” suffix to the standard part number.

Using POE 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 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.

FEATURES AND BENEFITS:
- “Carrier class” power over ethernet system
- Auto ranging power supply / inserter
- 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 which accept power on unused Ethernet pins 4,5,7,8
- FCC and CE approved
- Current indicator (CI) option available

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

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**802.3af POE Power Up Sequence**

1. **Detection** – Look for 802.3af compliant signature
2. **Startup** – Ramp power safely
3. **Operation** – Continuously monitor for short circuit or overload

**SYSTEM ORDERING:**

- POE-48i
  - 48 VDC @ 0.35 A
  - POE Power Supply / Inserter
- POE-24i
  - 24 VDC @ 0.8 A
  - POE Power Supply / Inserter
- POE-18i
  - 18 VDC @ 0.9 A
  - POE Power Supply / Inserter
- POE-12i
  - 12 VDC @ 1.3 A
  - POE Power Supply / Inserter
- POE-24iR
  - 24 VDC @ 0.8 A
  - POE Power Supply / Inserter

*All include AC Power Cord

**NOTES:**

- All shipments F.O.B. Schaumburg, IL 60173