



POE-XXI Power-Over-Ethernet

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

POE-XXI POWER SUPPLY/INJECTOR

Input Voltage	90 - 264 VAC @ 47 - 63 Hz
Input Current	0.3 A @ 120 VAC, 0.2 A @ 230 VAC
Inrush Current	<15 A peak @ 120, VAC <30 A peak @ 230 VAC
Efficiency	70% Min.
Output Voltage	POE-48i 48 VDC @ 0.35 A POE-24i 24 VDC @ 0.8 A POE-24iR 24 VDC @ 0.8 A POE-18i 18 VDC @ 0.9 A POE-12i 12 VDC @ 1.3 A
Output Ripple	1% Max
Switching Frequency	200KHz Typ
Line Regulation	+/- 0.5%
Load Regulation	+/- 1%
Operating Temperature	-10 to +60°C
Storage Temperature	-20 to +85°C
Operating Humidity	5% to 90% non condensing
Size (L x W x H)	3.25" x 3" x 1.5" (83 x 76 x 38mm)
Weight	5.2 oz (147 gm)
AC Connector	IEC-320 C6 (Supercom SC-14)
Data IN Conn.	RJ45 Shielded Socket
Data/POE OUT Conn.	RJ45 Shielded Socket
LED	(Amber) Green
Surge Protection	Common Mode
Clamping Voltage	11 V Data, 775 V Power
Max Surge Discharge Current	1200 A (8/20 uS) Power
Peak Pulse Current	36 A (10/1000 uS) Data
Shunt Capacitance	<5 pf Data
Response Time	<1 nS

COMPLIANCE

IEEE	802.3af POE Standard Mode B
EMI	EMI EN55022 (CISPR22) class B Meets CE
EMS	EN61000-4-2,3,4,5,6,8,11

SYSTEM ORDERING

POE-48i

48 VDC @ .35 A POE Power Supply / Inserter

POE-24i

24 VDC @ .8 A POE Power Supply / Inserter

POE-18i

18 VDC @ .9 A POE Power Supply / Inserter

POE-12i

12 VDC @ 1.3 A POE Power Supply / Inserter

POE-24iR Reverse Polarity

24 VDC @ .8 A POE Power Supply / Inserter (Pins 4/5 V-, Pins 7/8 V+)

*All include AC Power Cord

NOTES

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

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original