

INJ-24 Series

Gigabit IEEE 802.3af/at PoE+ injectors



- > PoE+ injector for 10/100/1000M networks; inject power and data to PD (Power Device) equipment
- > IEEE 802.3af/at compliant; supports a full 30 watt output
- > 24/48 VDC wide range power input
- > -40 to 75°C operating temperature range (T model)



Specifications

Technology

Standards:

- IEEE 802.3af/at for Power-over-Ethernet
- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseT(X)
- IEEE 802.3ab for 1000BaseT(X)

Interface

RJ45 Ports: 10/100/1000BaseT(X) for PoE OUT and DATA IN
PoE Pinout: V+, V+, V-, V- for pin 4, 5, 7, 8 (Midspan, MDI Alternative B)

Power Requirements

- Input Voltage:** 24/48 VDC, single input
- Operating Voltage:** 22 to 57 VDC
- Input Current:** 1.42 A @ 24 VDC
- Overload Current Protection:** Present
- Connection:** 1 removable 3-contact terminal block
- Reverse Polarity Protection:** Present
- Power Consumption:** Max. 4.08 W full loading without PD's consumption
- Power Budget:** Max. 30 W for 1 PD's consumption

Physical Characteristics

- Housing:** Plastic
- IP Rating:** IP30 protection
- Dimensions:** 24.9 × 100 × 86.2 mm (0.98 × 3.93 × 3.39 in)
- Weight:** 115 g (0.26 lb)
- Installation:** DIN-rail mounting

Environmental Limits

- Operating Temperature:**
Standard Models: 0 to 60°C (32 to 140°F)
Wide Temp. Models: -40 to 75°C (-40 to 167°F)
- Storage Temperature:** -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity:** 5 to 95% (non-condensing)

Standards and Certifications

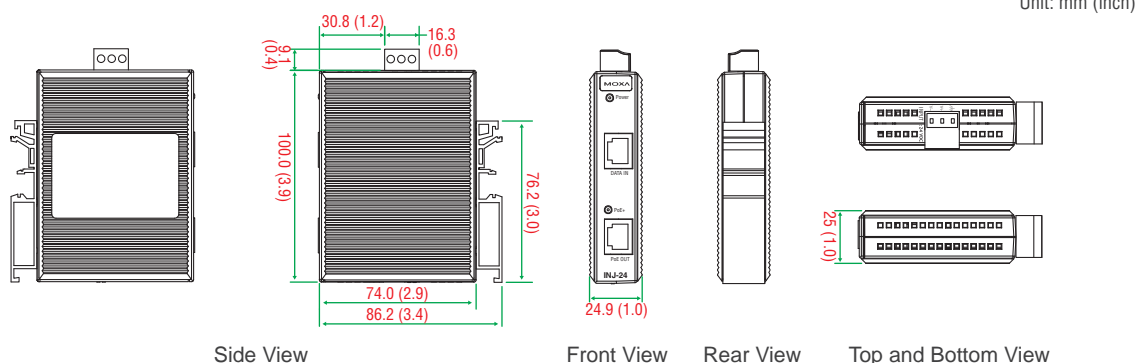
- Safety:** UL 508, EN 60950-1 (LVD)
- EMC:** EN 55022/24
- EMI:** CISPR 22, FCC Part 15B Class A
- EMS:**
IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m
IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV
IEC 61000-4-6 CS: Signal: 10 V
IEC 61000-4-8
- Shock:** IEC 60068-2-27
- Freefall:** IEC 60068-2-32
- Vibration:** IEC 60068-2-6

Note: Please check Moxa's website for the most up-to-date certification status.

MTBF (mean time between failures)

- Time:** 2,525,278 hrs
- Standard:** Telcordia (Bellcore), GB
- Warranty**
Warranty Period: 5 years
Details: See www.moxa.com/warranty

Dimensions



Ordering Information

Available Models

- INJ-24:** PoE+ Injector, maximum output of 30 W at 24/48 VDC, 0 to 60°C operating temperature
- INJ-24-T:** PoE+ Injector, maximum output of 30 W at 24/48 VDC, -40 to 75°C operating temperature

Package Checklist

- INJ-24 PoE+ injector
- Hardware installation guide (printed)
- Warranty card