

# INJ-24A Series

Gigabit high power IEEE 802.3af/at PoE+ injectors



- > High power mode provides up to 60 W
- > DIP switch configurator and LED indicator for PoE management
- > 3kV surge resistance for harsh environments
- > Mode A and Mode B selectable for flexible installation
- > Built-in 24/48 VDC booster for redundant dual power inputs
- > -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:

Default: V+, V+, V-, V- for pin 4, 5, 7, 8 (Midspan, MDI, Mode B)  
 Custom DIP switch setting: V+, V+, V-, V- for pin 1, 2, 3, 6 (Endspan, MDI, Mode A)

### Power Requirements

**Input Voltage:** 24/48 VDC, redundant dual inputs

**Operating Voltage:** 22 to 57 VDC

**Input Current:** 2.71 A @ 24 VDC

**Overload Current Protection:** Present

**Connection:** 1 removable 4-contact terminal block

**Reverse Polarity Protection:** Present

**Power Consumption:** Max. 5.29 W full loading without PD's consumption

**Power Budget:** Max. 60 W for 1 PD's consumption

### Physical Characteristics

**Housing:** Metal

**IP Rating:** IP30 protection

**Dimensions:** 115 × 30.3 × 78.8 mm (4.53 × 1.19 × 3.10 in)

**Weight:** 245 g (0.54 lb)

**Installation:** DIN-rail mounting, wall mounting (with WK-30)

### 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 55032/24

**EMI:** CISPR 32, 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: 20 V/m

IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV

IEC 61000-4-5 Surge: Power: 3 kV; Signal: 3 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:** 2,407,739 hrs

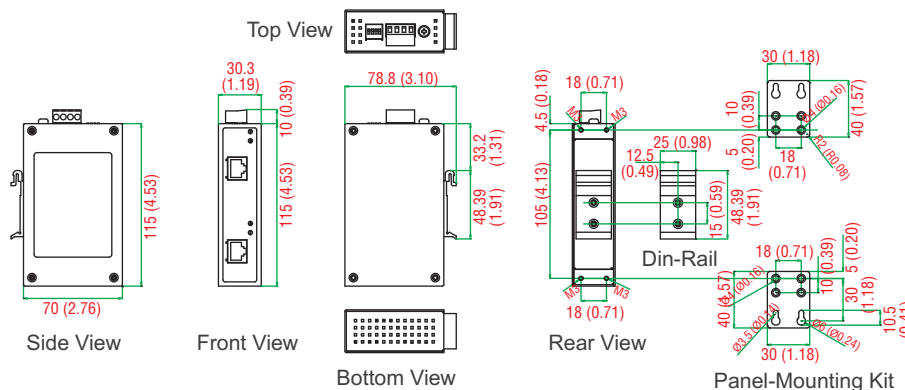
**Standard:** Telcordia (Bellcore), GB

### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

## Dimensions



## : Ordering Information

### Available Models

**INJ-24A:** Gigabit high-power PoE+ injector, max. output of 60 W at 24/48 VDC, 0 to 60°C operating temperature

**INJ-24A-T:** Gigabit high power PoE+ injector, max. output of 60 W at 24/48 VDC, -40 to 75°C operating temperature

Note: 60-watt PoE is not a standardized application. Check with Moxa for product compatibility before using 60-watt PoE.

### Package Checklist

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