
48V PoE Injector Specification

(IEEE 802.3af Enable / With Surge Lightning Protection)

P/N:

MS-POE-IJ: PoE Injector without IEEE 802.3af detection.

MS-POE-IJAF: PoE Injector with IEEE 802.3af detection.

MS-POE-IJT: PoE Injector with surge/lightning protection.

MS-POE-IJAFT: PoE Injector with IEEE 802.3af detection and surge/lightning protection.

Function: Transform AC power to 48V DC power. Inject 48V DC through CAT-5 cable pin# 4/5, 7/8, into remote devices such as Wireless AP, IP Phone, Web Camera, etc.

1. Input: AC 100V—AC 240V

2. Output: DC 48V / 350mA

3. Efficiency: 70% Min.

4. Protection:

4.1 Short Circuit Protection:

Any output Short GND Terminal will lead Auto-Reset.

4.2 Over Load Protection

Load current over 450mA will lead Auto-Reset.

4.3 High Voltage Protection

Output DC voltage over 52V will lead Auto-Reset.

5. General Description:

5.1 Operation Temperature: -0 - +60 Degree

5.2 Storage Temperature: -10 - +70 Degree

5.3 Operation Humidity: 5% - 90%

6. RJ-45 Connector & Pinout:

RJ-45 Output (Data & Power)			RJ-45 Input (Data Only)	
Pin	Symbol	Description	Symbol	Description
1	Rx+	Data Receive	Rx+	Data Receive
2	Rx-	Data Receive	Rx-	Data Receive
3	Tx+	Data Transmit	Tx+	Data Transmit
4	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
5	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
6	Tx-	Data Transmit	Tx-	Data Transmit
7	-Vdc	Feeding power(-)	NC	Not Connected
8	-Vdc	Feeding power(-)	NC	Not Connected

Note: pins 7 and 8 (-Vdc) should not be shorted to ground.

7. Mechanical & Dimension:

- 7.1 Plastic Case Material: ABS
- 7.2 Plastic Case Finish: Texture
- 7.3 Plastic Case Color: Gray
- 7.5 Plastic Case Dimension: 85mm (L) * 76mm (W) * 36mm (H)



Picture 1: PoE Injector

8. Spec. of Surge / Lightning Protection:

	Signal	Power
Operating Voltage	Data 5V	385VDC
Clamping Voltage	Data 11V	775VDC
Max. Surge Discharge Current		1200A (8/20uS)
Peak Pulse Current	36A (10/1000uS)	
Pin Protected	4 pin protected (1/2, 3/6)	
Protection Mode	Common mode	
Max. Shut Capacitance	< 5 pF	
Data Rate	100 Mbps	
Response Time	< 1 nS	
Operating Temperature	-20°C~+60°C	
Storage Temperature	-40°C~+80°C	
Operating Humidify	0~95% non condensing	
