

MSTronic Co., Ltd.

2F, 12, Gongshang Rd., Wugu Dist., New Taipei City, 248, Taiwan

TEL:886-2-2293-0159 FAX:886-2-2292-8851

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MIT-14DM

DC/DC PoE Injector

SPECIFICATION

1. INPUT :

- 1.1 Input Voltage: 9Vdc to 36Vdc
- 1.2 Input Current: 1.85A at 12Vdc
0.90A at 24Vdc

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+48V
Max. load	0.35A
Power	17W
Min. Load	0.01A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER :17W

Note 1: Noise bandwidth is from DC to 20Mhz. Ripple & Noise is measured by
Paralleling a 0.1uF metalize capacitor on the test point.

3. EFFICIENCY : 75% min at Full Load , 12Vdc & 24Vdc Input Voltage

4. PROTECTION

4.1 Short Circuit Protection

Output Short GND Terminal will not damage the Power Supply and will
Auto-Reset.

4.2 Input with Fuse Protection.

4.3 Safety Standard : meet UL1950, CSA 22.2 & TUV EN60950.

4.4 EMC : meet FCC Class B , EN55022 Class B ,

4.5 Over Current : 120% ~ 160% @12Vdc Input F.L

4.6 Input Polarity Reverse Protection-----NO Work



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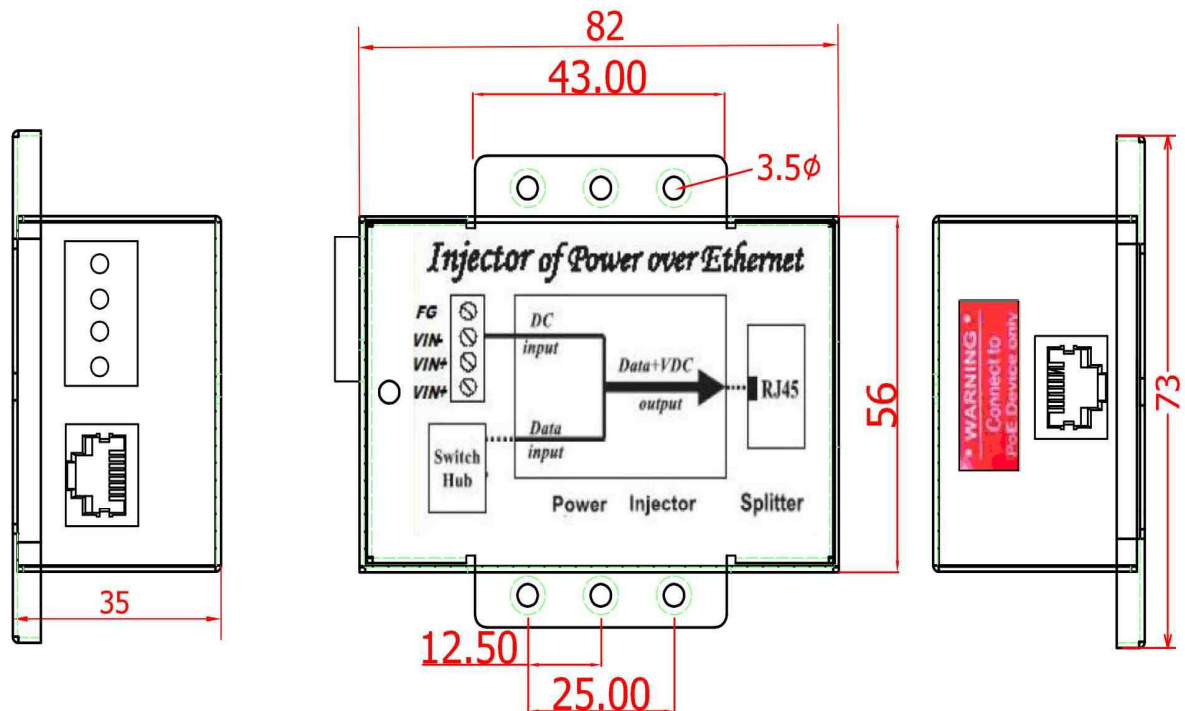
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5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -40 - +85 Degree
- 5.2 Storage Temperature: -40 - +90 Degree
- 5.3 Operation Humidity: 5% - 90%
- 5.4 Cooling: Free air cooling
- 5.5 SIZE : 82*73*35 (L)*(W)*(H) unit: m/m DIN rail mountable





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6. Indicator

6.1 Output Ready the LED will be “RED”

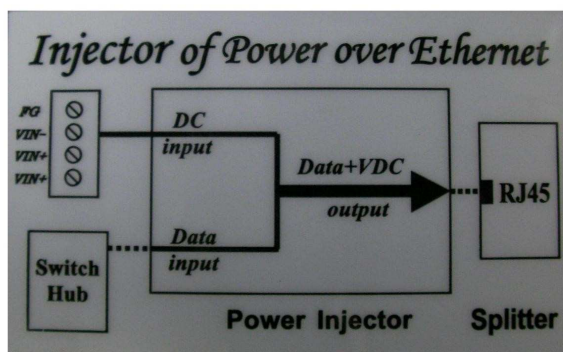
6.2 Output 802.3af OK the LED will be “GREEN”

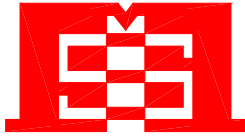
7 CONNECTION

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
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	NC	Not Connector	-Vdc	Feeding power(+)
5	NC	Not Connector	-Vdc	Feeding power(+)
6	TX-	Data Transmit	TX-	Data Transmit
7	NC	Not Connector	(-Vdc)_return +	Feeding power(-)
8	NC	Not Connector	(-Vdc)_return +	Feeding power(-)

Note :

1. the model is isolated design, the output +/- or input +/- can be shorted to ground (FG)..
2. INPUT CONNERTER :





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8. SPEC. of SURGE/LIGHTNING PROTECTION

	Signal
Operating Voltage	Data 5V
Clamping Voltage	Data 16.5V (@I PP =5A, t p =8/20μs, I/O pin to GND)
Peak Pulse Current	20A (tp=8/20μs)
Pin Protected	4 pin protected (signal pairs)
Max. Shut Capacitance	<3pF (VR = 0V, f = 1MHz, I/O pin to GND) < 1.5 pF (VR = 0V, f = 1MHz, Between I/O pins)
IEC COMPATIBILITY (EN61000-4)	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns) IEC61000-4-5 (Lightning) 20A (8/20μs)

8. USE NIPPON CHEMI-CON for Capacitors :

C4 = GXE 470UF/50V C7 = KY 100UF/25V

C16=KY 100UF/100V

C17=KY 47UF/63V

9. Green-Mode PWM Control Circuit is Operating at Ambient Temperature

- 25 - +85 Degree

10. Linear Integrated Circuit is Operating at Ambient Temperature

- 40 - +85 Degree