



MSTronic Co., Ltd.

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

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

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

MIT-70G-4856BDNN

PoE Injector

DC/DC, Gigabit, 802.3at

SPECIFICATION

1. INPUT :

- 1.1 Input Voltage: 40Vdc to 60Vdc Normal = 48V
- 1.2 Input Current: 0.89A at 48Vdc
1.00A at 40Vdc
0.70A at 60Vdc

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	0.625A
Power	35W
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER : 35W

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 : 82% min at Full Load , 40Vdc to 60Vdc 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 Input with Surge Protection.

4.4 Safety Standard : meet IEC 62368-1.

4.5 EMC : meet FCC Class A , EN55032 Class A,

4.6 IEEE 802.3at compliant

4.7 Over Current : 802.3at Limits @40Vdc~ 60Vdc Input F.L



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4.8 Input Polarity Reverse Protection -----NO Work

4.9 Input Over Voltage Protection : 72.3V ~ 72.8V Turn-off Input Voltage.

4.10 Input Over low Voltage Protection : 33.1V ~ 33.8V Turn-off Input Voltage.

5. GENERAL DESCRIPTION

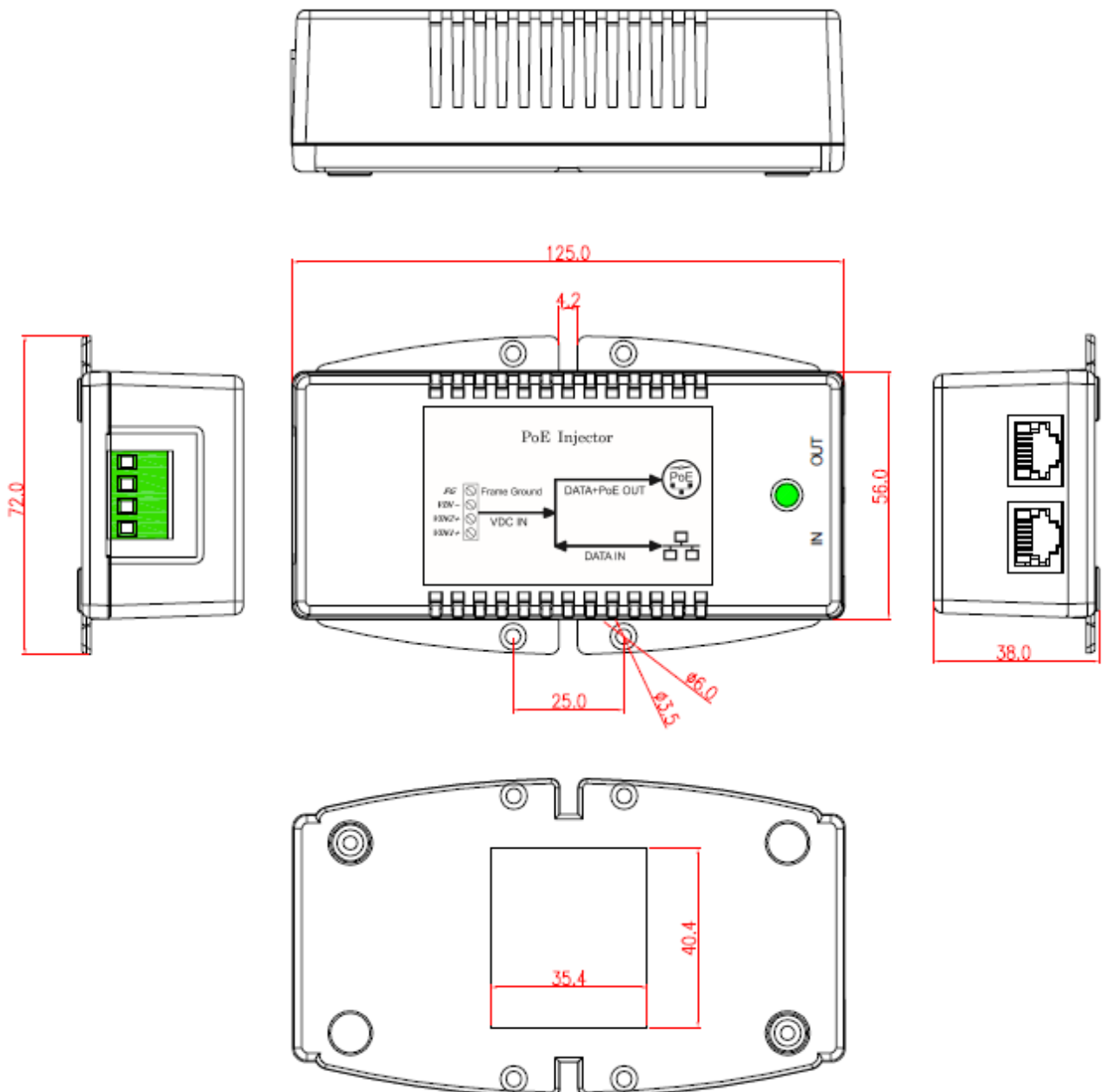
5.1 Operation Temperature: -40 - +40 Degree

5.2 Storage Temperature: -40 - +85 Degree

5.3 Operation Humidity: 5% - 90%

5.4 Cooling: Free air cooling

5.5 SIZE : 125*72*38 (L)*(W)*(H) unit: m/m DIN rail mountable





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6. Indicator :

6.1 the LED lights RED means Power Ready

6.2 the LED lights GREEN means Output 802.3af or 802.3at OK

7 CONNECTION : RJ45 Connection and pin out: @100MBASE

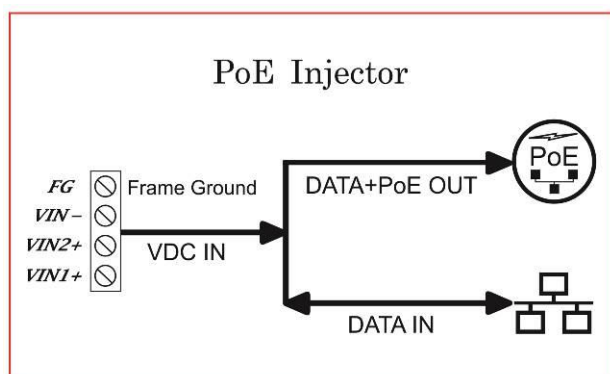
RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive	RX+	Data Receive
2	RX-	Data Receive	RX-	Data Receive
3	TX+	Data Transmit	TX+	Data Transmit
4	NC	Not Connector	-Vdc	Feeding power(+)
5	NC	Not Connector	-Vdc	Feeding power(+)
6	TX-	Data Transmit	TX-	Data Transmit
7	NC	Not Connector	(-Vdc)_return +	Feeding power(-)
8	NC	Not Connector	(-Vdc)_return +	Feeding power(-)

8. RJ45 Connection and pin out: @1000MBASE

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+	+Vdc + BI_DC+	power(+)+Data Pair C+
5	BI_DC-	Data Pair C-	+Vdc + BI_DC-	power(+)+Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+	-Vdc + BI_DD+	power(-)+Data Pair D+
8	BI_DD-	Data Pair D-	-Vdc + BI_DD-	power(-)+Data Pair D-

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

9. INPUT CONNECTION





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Ambient O/P Load

-40°C	100 %
-30°C	100 %
-20°C	100 %
-10°C	100 %
0°C	100 %
10°C	100 %
20°C	100 %
30°C	100 %
40°C	100 %
50°C	100 %
60°C	100 %
70°C	90 %

