



MSTronic Co., Ltd.

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MIT-20G-2456D

DC/DC Gigabit PoE Injector

SPECIFICATION

1. INPUT :

1.1 Input Voltage: 18Vdc to 36Vdc Normal = 24V

1.2 Input Current: 3.65A at 24Vdc @ Full Load

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	1.26A
Power	70W
Min. Load	0.01A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER : 70W

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 : 80% min at Full Load , 18Vdc ~ 36Vdc Input Voltage

4. PROTECTION

4.1 Short Circuit Protection

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

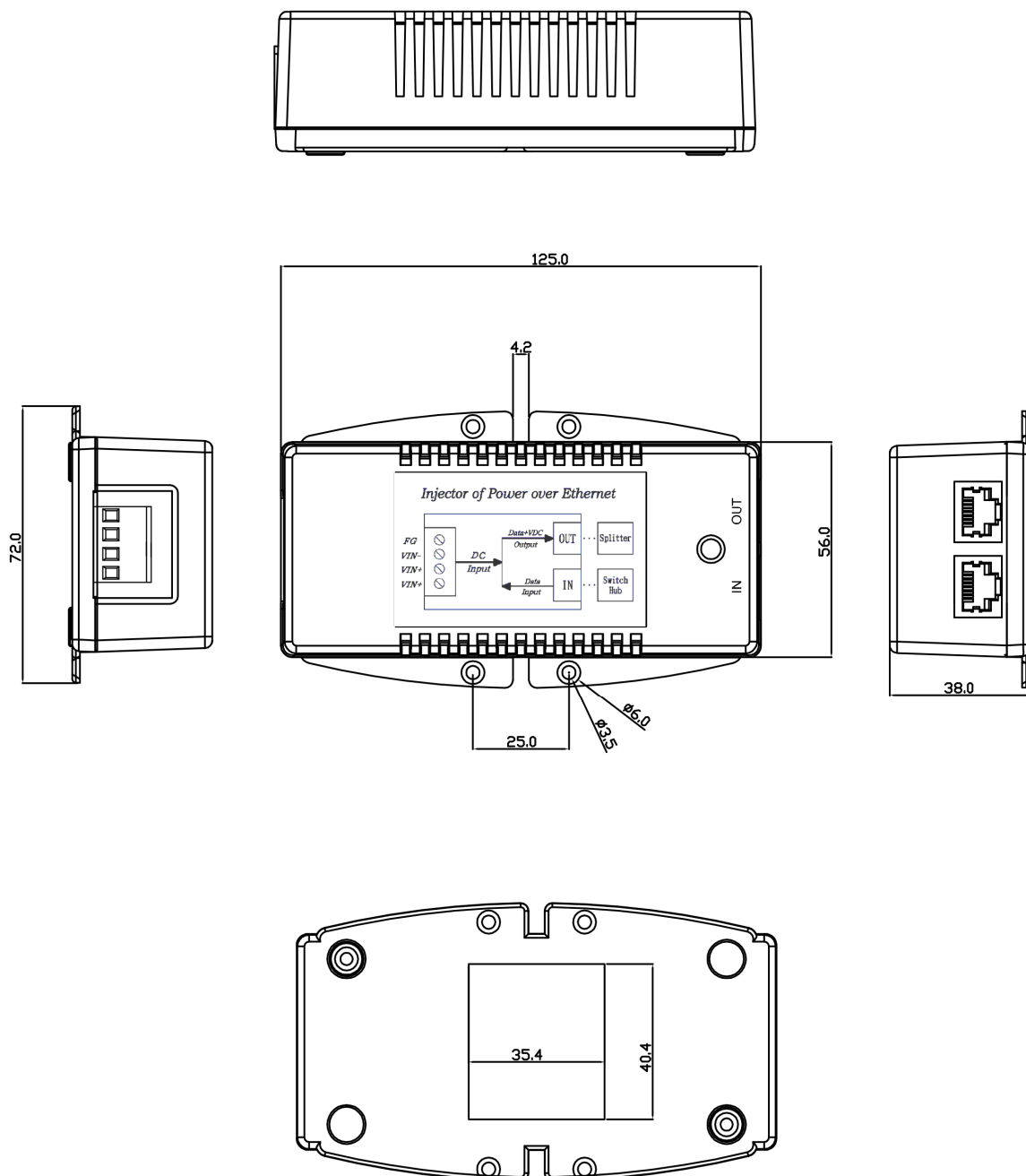
4.2 Input have Fuse Protection.

4.3 Safety Standard : meet UL1950, CSA 22.2 & TUV EN60950-1.

4.4 EMC : meet FCC Class B , EN55022 Class B

4.5 Over Current : 110% ~ 130% @All DC Input F.L

4.6 Input Reverse Protection-----NO Work





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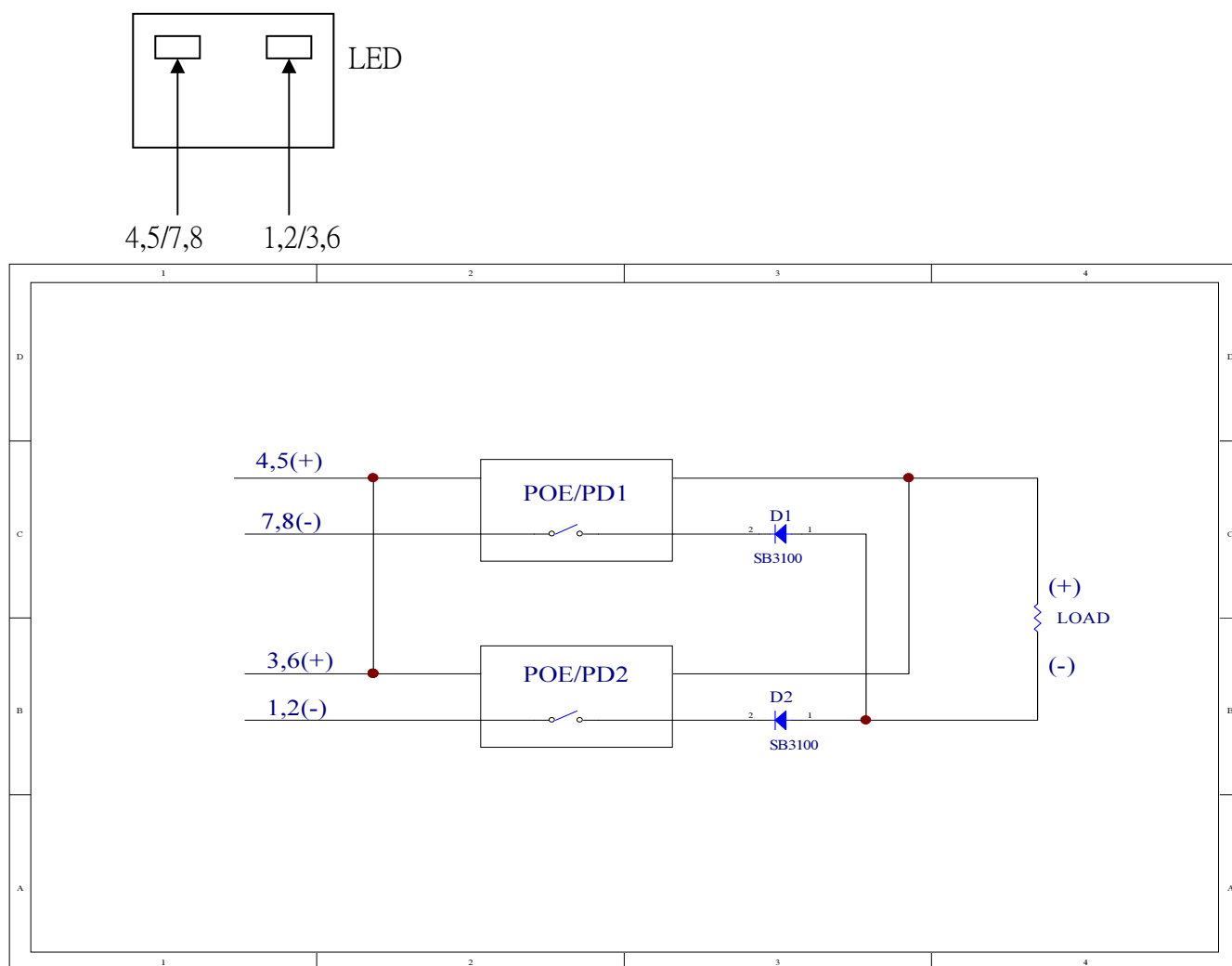
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6. Indicators :

6.1 the LED on top cover light GREEN when Power Ready

6.2 the LEDs on right RJ45 light GREEN when powering to 802.3at PD, the left LED ON means the spare pairs powering, the right LED ON means the signal pairs powering. If no valid PD be connected, the two LEDs light off.

OUTPUT



Note 1: the signal pairs (pin 1236) and spare pairs (pin 4578) with individual 802.3at PSE detection, each PSE with valid output, the model will offer 70W maximum.



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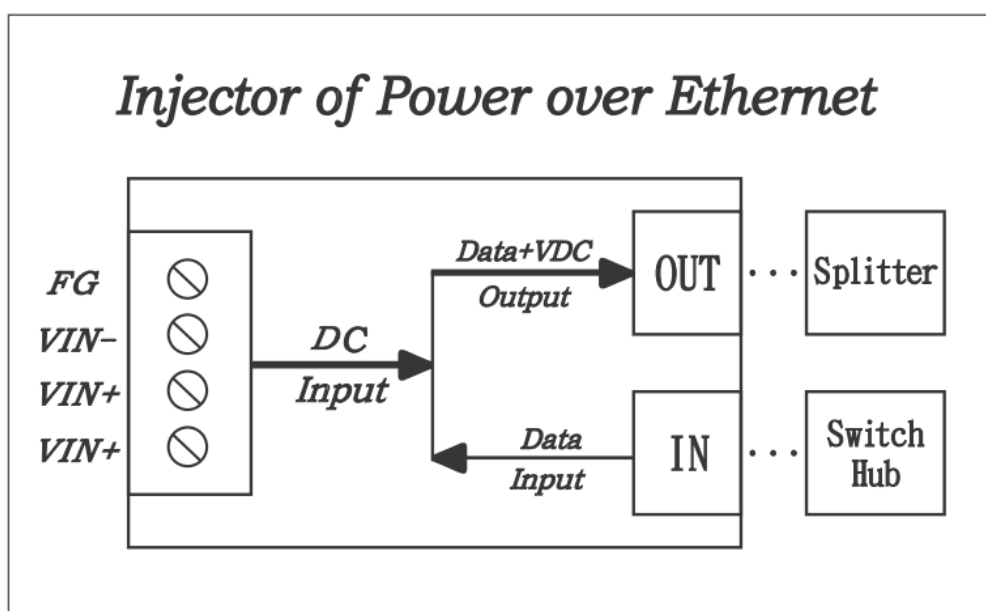
7. RJ45 Pin Assignment : @1000M

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	-Vdc + BI_DA+	power(-)+Data Pair A+
2	BI_DA-	Data Pair A-	-Vdc + BI_DA-	power(-)+Data pair A-
3	BI_DB+	Data Pair B+	+Vdc + BI_DB+	power(+)+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-	+Vdc + BI_DB-	power(+)+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).

8. INPUT CONNECTION:





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9. 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)