



# MSTronic Co., Ltd.

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## SPECIFICATION

MIT-85G-56D-BT

Ultra High PoE Injector

802.3bt Compliant

### 1. INPUT :

- 1.1 Input Voltage: AC 100V ~ 240V  $\pm 10\%$
- 1.2 Input Frequency : 47 ~ 63Hz
- 1.3 Input Current: 0.9A at 120Vac @F.L PF > 0.98  
0.5A at 230Vac @F.L PF > 0.95
- 1.4 Inrush current: 25A Max at 120Vac & 50A Max at 230Vac

### 2. OUTPUT :

#### 2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	1.6A
Power	90W Max
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	2%

TOTAL POWER :90 W

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz. Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

- 3. EFFICIENCY : 90% min. at AC 120V Input @F.L  
90% min. at AC 240V Input @F.L

### 4. PROTECTION

#### 4.1 Short Circuit Protection

output Short GND Terminal will not damage the Power Supply will Auto-Recover when Load status going to normally.

- 4.2 Over Voltage Protection : 58V ~ 60V
- 4.3 Over Current Limits : 120% ~ 150% @100V ~ 240Vac
- 4.4 LED Indicate SENSE – OK



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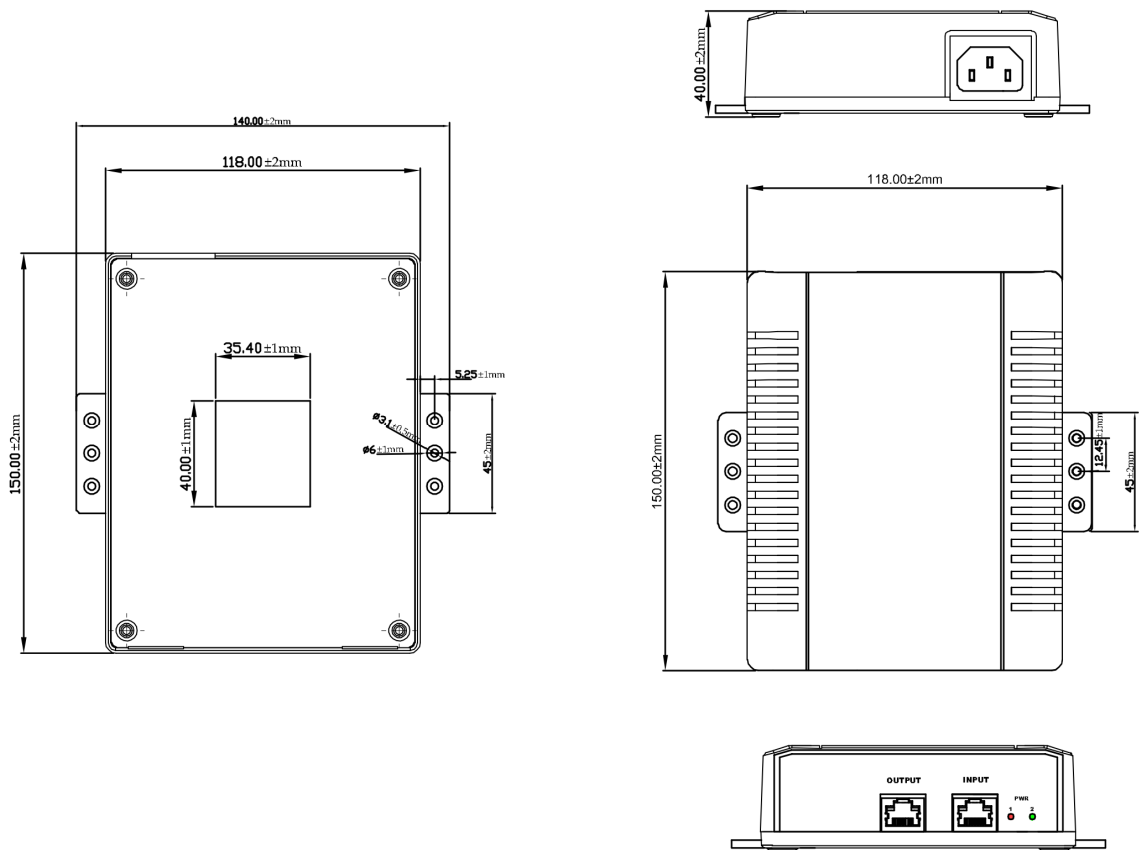
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- 5. EMC : Meet FCC Class A EN55032 Class A
- 5.1 SAFETY STANDARD : Meet EN62368-1
- 5.2 Hold up time :8mS min. at maximum load &120Vac Input.

## 6. GENERAL DESCRIPTION

- 6.1 Operation Temperature: -40 - +70 Degree
- 6.2 Storage Temperature: -40 - +85 Degree
- 6.3 Operation Humidity: 5% - 90%
- 6.4 Cooling: Free air cooling
- 6.5 SIZE 140\*150\*40 (L\*W\*H)





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## 7. RJ45 Pin Assignment : @1000M/5000M @CAT6A

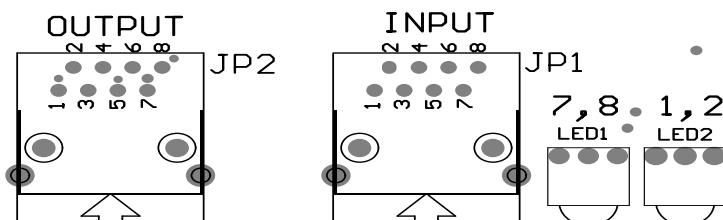
RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	-Vdc + BI_DA+	power(-)+Data Pair A+
2	BI_DA-	Data Pair A-	-Vdc + BI_DA-	power(-)+Data pair A-
3	BI_DB+	Data Pair B+	+ Vdc + BI_DB+	power(+)+Data Pair B+
4	BI_DC+	Data Pair C+	+Vdc +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

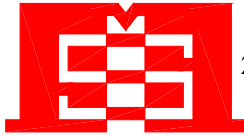
OUTPUT class 8

## 8. INDICATOR :'

8.1 LED1, 2 (RED) Indicate POE Output no valid detection.

8.2 LED1, 2 (GREEN) Indicate POE Output detected



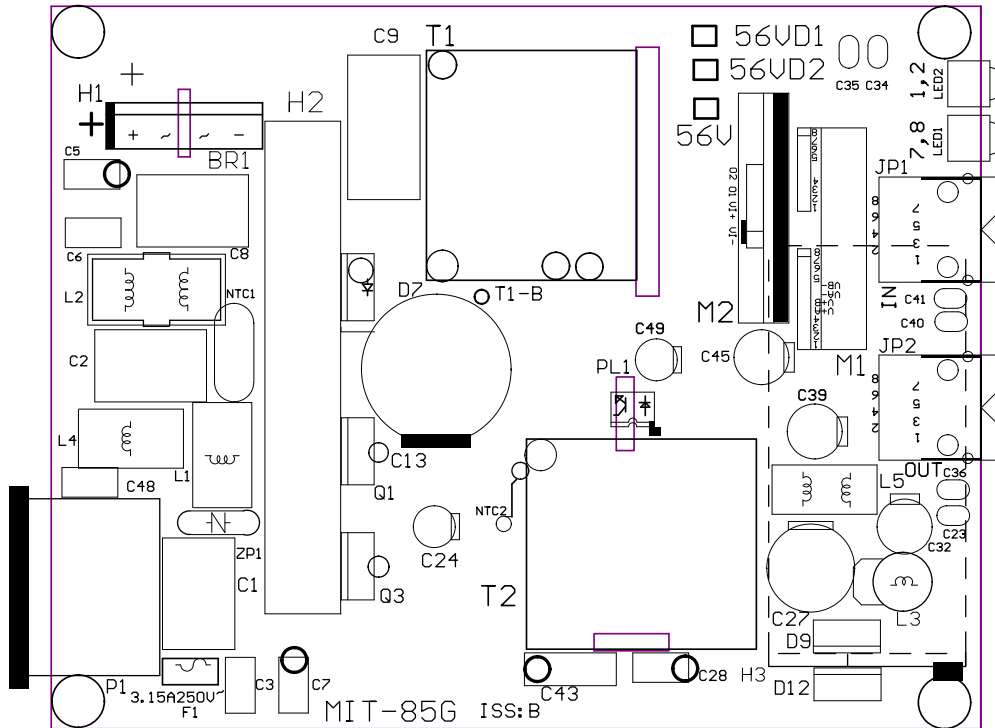


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## APPLICATIONS INFORMATION

Table 1. IEEE-Specified Power Allocations, Single-Signature PD

PD CLASS	PSE OUTPUT POWER	ALLOCATED CABLING LOSS	PD INPUT POWER
1	4W	0.16W	3.84W
2	6.7W	0.21W	6.49W
3	14W	1W	13W
4	30W	4.5W	25.5W
5	45W	5W	40W
6	60W	9W	51W
7	75W	13W	62W
8	90W	18.7W	71.3W

Table 2. PSE Maximum Delivered Power, Per-Port

DEVICE	PSE					
	STANDARD	TYPE	802.3at		802.3bt	
			1	2	3	4
PD	802.3at	1	13W	13W	13W	13W
		2	13W*	25.5W	25.5W	25.5W
	802.3bt	3	13W*	25.5W*	51W	51W
		4	13W*	25.5W*	51W*	71.3W

\*Indicates PD allocated less power than requested.