



MSTronic Co., Ltd.

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SPECIFICATION

MIT-85G-56D-BT-IP66-T100E

IP66 Waterproof Gigabit AC/DC 802.3bt PoE Injector

1. INPUT :

- 1.1 Input Voltage: AC 100V ~ 240V $\pm 10\%$
- 1.2 Input Frequency : 50 ~ 60Hz
- 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 POWER – OK





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- 5. EMC : Meet FCC Class A EN55032 Class A
- 5.1 SAFETY STANDARD : Meet IEC 62368-1
- 5.2 Hold up time :8mS min. at maximum load &120Vac Input.

6. GENERAL DESCRIPTION

- 6.1 Operation Temperature: -40 - +70 Degree (certificate +40C)
- 6.2 Storage Temperature: -40 - +85 Degree
- 6.3 Operation Humidity: 5% - 90%
- 6.4 Cooling: Free air cooling
- 6.5 SIZE 268*88*207 (L*W*H)
- 6.6 Waterproof IP66
- 6.7 Anti-UV plastic enclosure
- 6.8 Light Pole mountable with 6" hose clamp



7. RJ45 Pin Assignment : 1000M / 5000M@CAT6A , OUTPUT class 8

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-
9	SHLD	Shield enclosure	SHLD	Shield enclosure

***Note: The data rate will drop to 2.5G once the temperature drop to -40C.**



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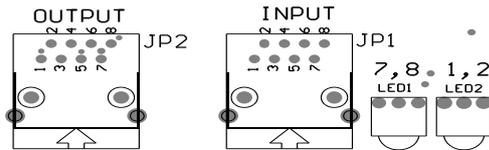
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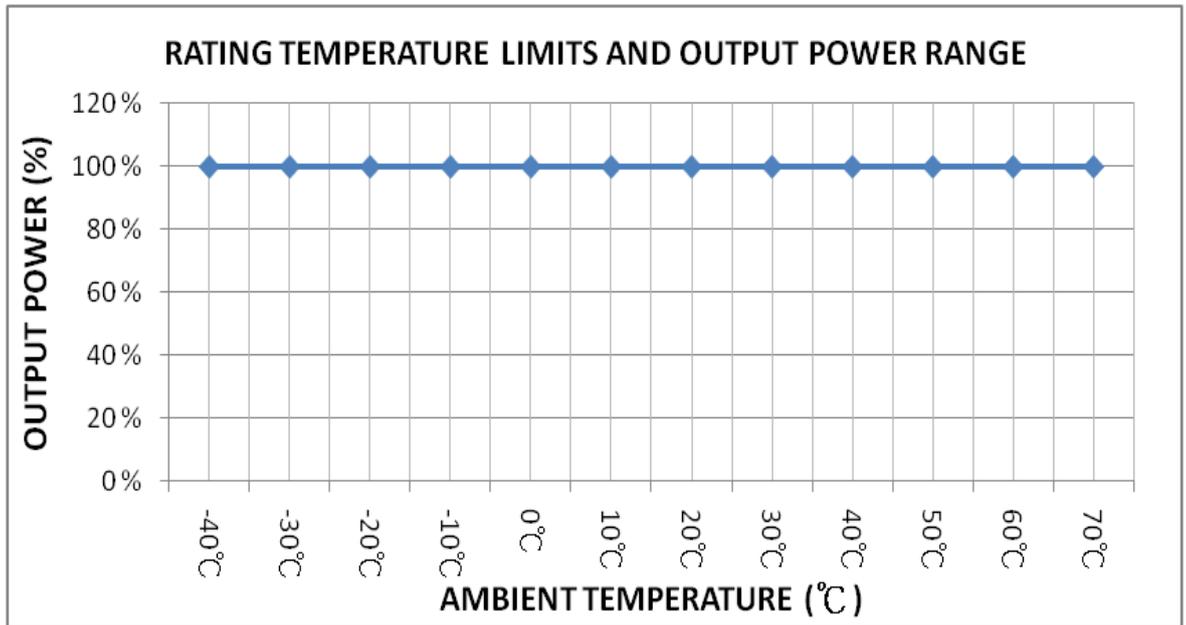
8. INDICATOR :

- 8.1 LED 1 (RED) Indicate POE Output no valid detection.
- 8.2 LED 2 (GREEN) Indicate POE Output detected



MIT-85G-56D-BT

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	100 %





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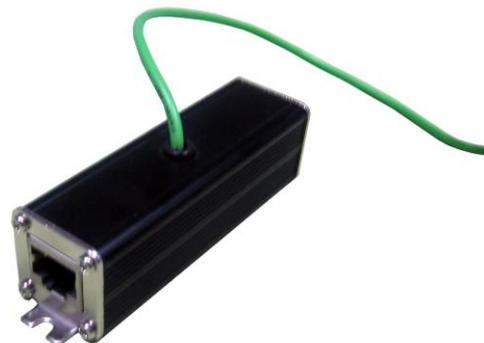
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SPEC. of SURGE/LIGHTNING PROTECTION (MS-T100E)

1. Nominal voltage operating DC voltage: 48 V
2. Max. continuous operating DC voltage: 56V
3. Max. continuous DC voltage pair-pair (PoE): 58V
4. Nominal current: 1.25 A(Each pair of lines)
5. Nominal discharge current line-line: 125A (8/20 μ s)
6. Nominal discharge current line-FG: 100A (10/1000 μ s,300 times with 3 mins interval)
7. Total nominal discharge current line-FG: 5KA (8/20 μ s,10 times with 3 mins interval)
8. Voltage protection level line-line: 47V ~ 77V (@ IP = 2.5A(@rising voltage 100V/s)
9. Voltage protection level line-line (POE): 98V ~ 550V (@rising voltage 1000V/uS)
10. Voltage protection level line-FG: 98V ~ 550V (@rising voltage 1000V/uS)
11. Rated Stand-OFF Voltage : 48V(1,2/3,6) & (4,5/7,8)
12. Capacitance line-line: ≤ 5 PF
13. Capacitance line-FG: ≤ 5 PF
14. Operating temperature range: -40 $^{\circ}$ C to +80 $^{\circ}$ C
15. Connection (input / output): RJ45 socket
16. Pinning 1 / 2, 3 / 6, 4 / 5, 7 / 8
17. Data Rate : 10/100/1000 Mbps
18. Ground Lug Wire : 14AWG 350mm \pm 5mm





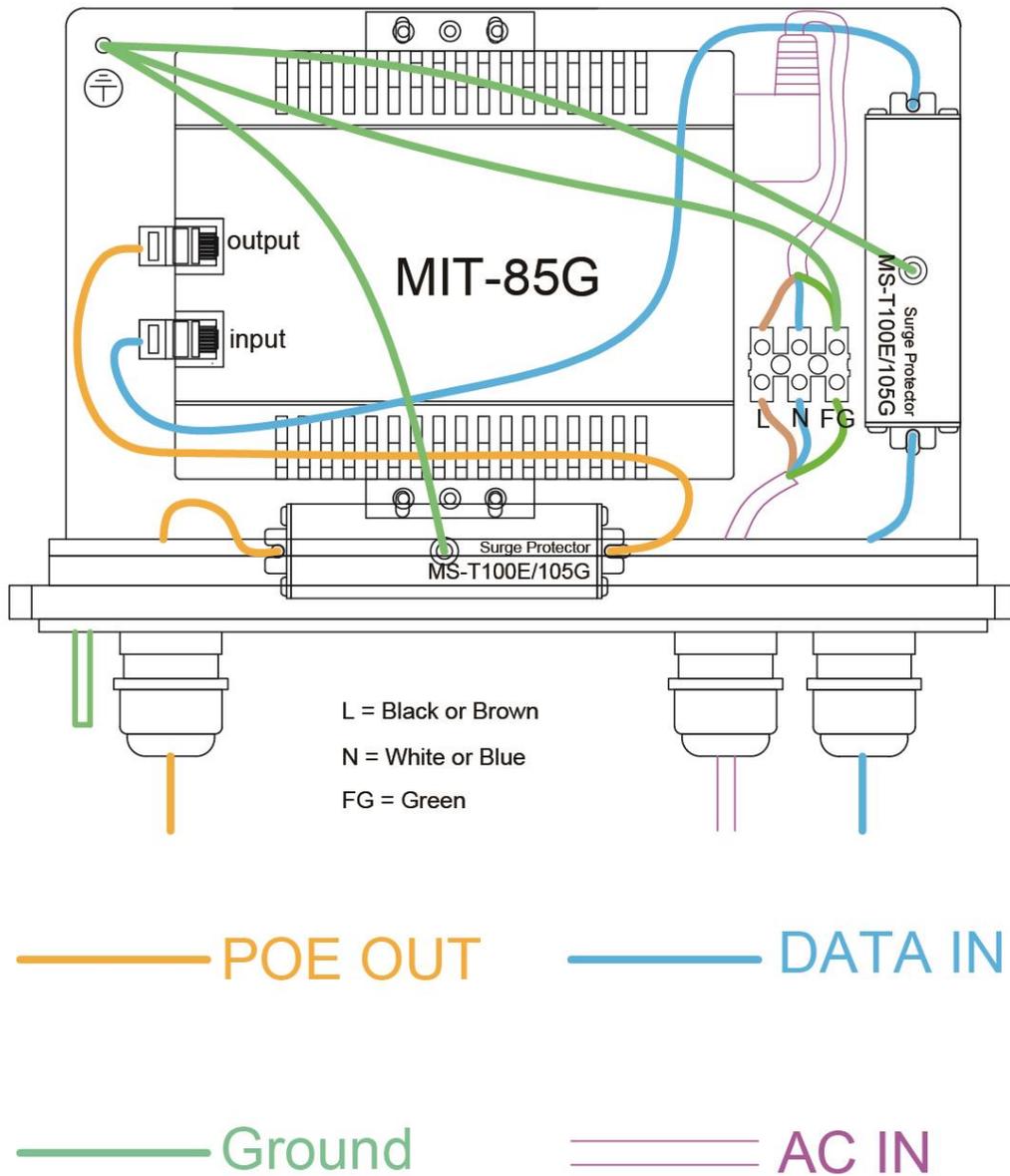
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Application:





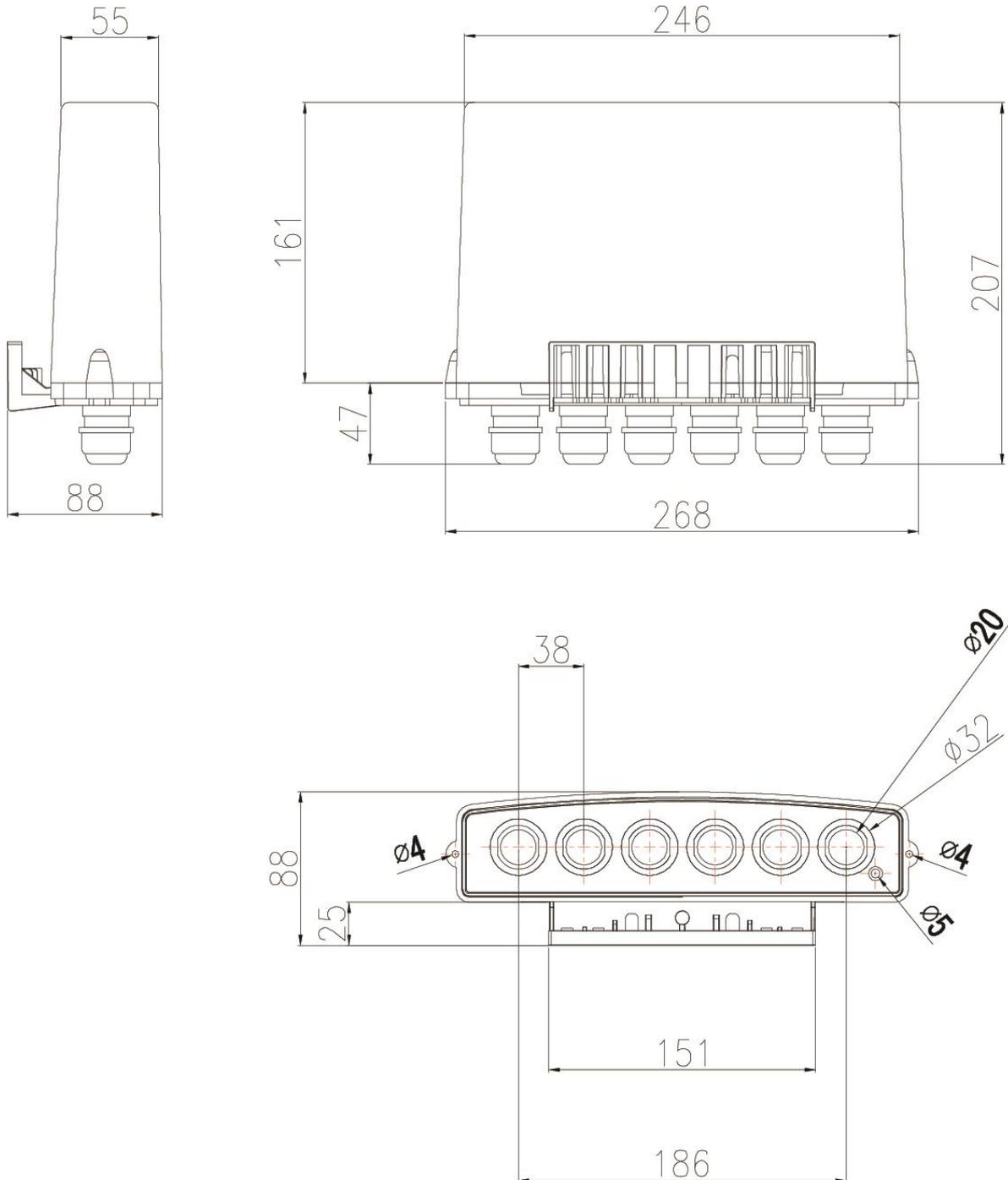
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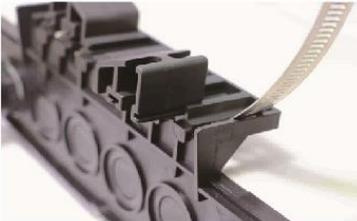
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prepare for pole mounting

1



put the hose clamp
through the designate holes



2

add two mounting helpers
to designated position
make sure the direction

3

final

