



MSTronic Co., Ltd.

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SPECIFICATION

MIT-89G-4856D-BT 90W DC/DC 5G PoE Injector

1. INPUT :

- 1.1 Input Voltage: 40Vdc to 60Vdc Normal = 56V
- 1.2 Input Current: 2.6A at 40Vdc @ Full Load
1.9 A at 56Vdc @ Full Load
1.8 A at 60Vdc @ Full Load

2. OUTPUT :

2.1 Output Voltage & Current:

| | |
|-------------|-------|
| OUTPUT | 56V |
| Max. load | 1.61A |
| Power | 90W |
| Min. Load | 0.01A |
| Load reg. % | 5% |
| Line reg. % | 1% |
| Ripple % | 1% |
| Noise % | 1% |

TOTAL POWER :90W(802.3bt Class 8)

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 , 40Vdc ~ 72Vdc 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 EN62368-1.

4.4 EMC : meet FCC Class A , EN55032 Class A, EN55024

4.5 Over Current : 802.3BT Class 8(96.6W)@All DC Input F.L

4.6 Input Reverse Protection----- if Input reverse then will NO Work



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4.7 INPUT LOW Voltage Protection Point : $33.2V \pm 0.3V$

4.8 OUTPUT Over Voltage Protection Point : $59V \pm 0.5V$

5. GENERAL DESCRIPTION

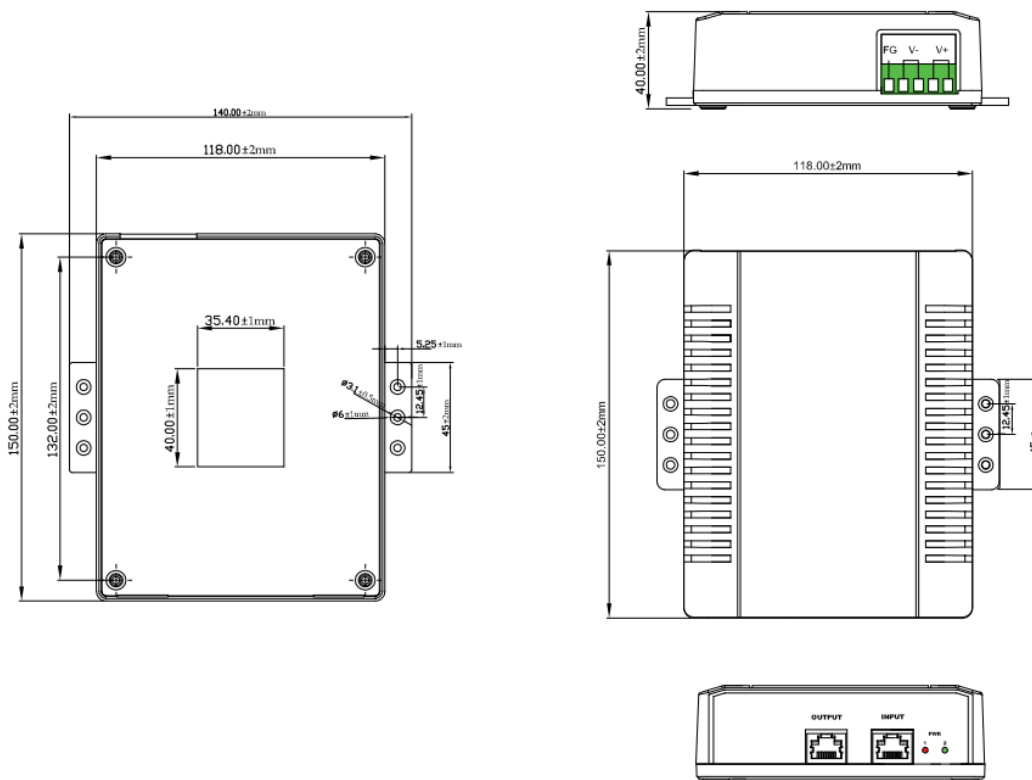
5.1 Operation Temperature: -40 - +70 Degree (certificate +50C)

5.2 Storage Temperature: -40 - +85 Degree

5.3 Operation Humidity: 5% - 90%

5.4 Cooling: Free air cooling

5.5 SIZE : 140*150*40 (L*W*H)m/m



6. Indication :

6.1 LED1(RED) Indicate POE Output no valid detection.

6.2 LED2(GREEN) Indicate POE Output 802.3af/at/bt PD detected



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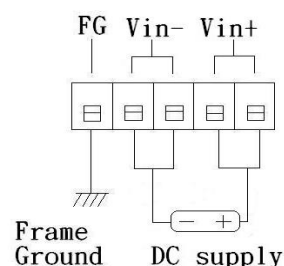
7. CHANNEL CONNECTORS & PINOUT :

| RJ-45 Input (only Data) | | |
|-------------------------|--------|---------------------|
| Pin | Symbol | Description |
| 1 | BI_DA+ | Data Pair A+ |
| 2 | BI_DA- | Data Pair A- |
| 3 | BI_DB+ | Data Pair B+ |
| 4 | BI_DC+ | Data Pair C+ |
| 5 | BI_DC- | Data Pair C- |
| 6 | BI_DB- | Data Pair B- |
| 7 | BI_DD+ | Data Pair D+ |
| 8 | BI_DD- | Data Pair D- |
| 9 | Shield | Connector shielding |

| RJ-45 Output (Data & Power) | | |
|-----------------------------|-------------|--------------------------------|
| Pin | Symbol | Description |
| 1 | BI_DA+, Vo- | Data Pair A+, Output power (-) |
| 2 | BI_DA-, Vo- | Data Pair A-, Output power (-) |
| 3 | BI_DB+, Vo+ | Data Pair B+, Output power (+) |
| 4 | BI_DC+, Vo+ | Data Pair C+, Output power (+) |
| 5 | BI_DC-, Vo+ | Data Pair C-, Output power (+) |
| 6 | BI_DB-, Vo+ | Data Pair B-, Output power (+) |
| 7 | BI_DD+, Vo- | Data Pair D+, Output power (-) |
| 8 | BI_DD-, Vo- | Data Pair D-, Output power (-) |
| 9 | Shield | Connector shielding |

Note :

1. the model is isolated design.





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MIT-89G-4856D-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 | 90 % |
| 70°C | 80 % |

