

# MSTronic Co., Ltd.

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

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

E.MAIL: mse@mse.com.tw

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## SPECIFICATION

### MIT-65G-4856D-BT-IP66-T100E

#### IP66 Waterproof Gigabit DC/DC 802.3bt PoE Injector

##### 1. INPUT :

- 1.1 Input Voltage: 40Vdc to 72Vdc Normal = 56V
- 1.2 Input Current: 2.6A at 40Vdc @ Full Load  
1.9 A at 56Vdc @ Full Load  
1.5 A at 72Vdc @ Full Load

**\*Note:** isolated design, both positive and negative input are all available.

##### 2. OUTPUT :

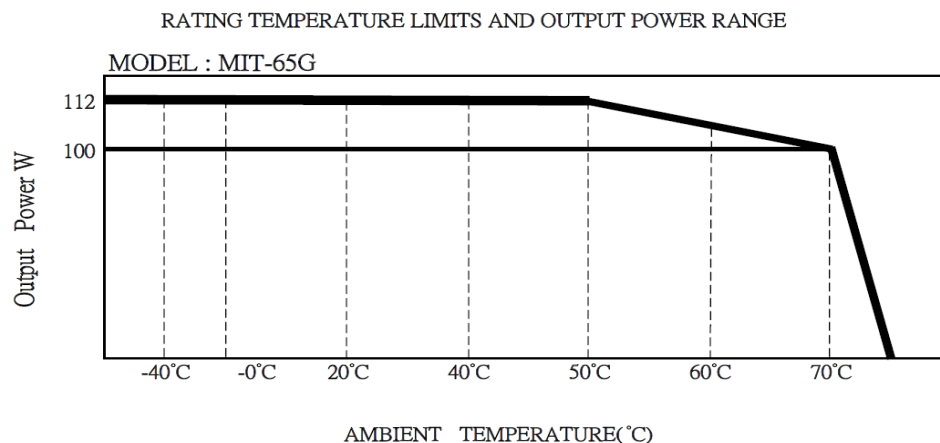
###### 2.1 Output Voltage & Current:

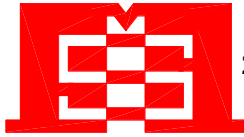
|             |       |
|-------------|-------|
| OUTPUT      | 56V   |
| Max. load   | 1.61A |
| Power       | 90W   |
| Min. Load   | 0.01A |
| Load reg. % | 5%    |
| Line reg. % | 1%    |
| Ripple %    | 1%    |
| Noise %     | 1%    |

TOTAL POWER : 90W

Note 1: Noise bandwidth is from DC to 20Mhz. Ripple & Noise is measured by Paralleling a 0.1uF metalize capacitor on the test point.

Note 2: Output up to 112W at 50C. De-rate output once above 50C, 100W maximum when 70C





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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 EN55032 Class B, FCC Class B ,

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

### 4.6 Input Reverse Protection-----NO Work

### 4.7 INPUT LOW Voltage Protection Point : 33.2V±0.3V

### 4.8 OUTPUT Over Voltage Protection Point : 59V±0.5V



## 5 Indication :

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

5.2 LED2(GREEN) Indicate POE Output **802.3BT** at PD detected

## 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

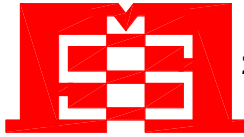
6.5 SIZE : 268\*207\*88 (W\*H\*D)m/m

6.6 Waterproof IP66

6.7 Anti-UV plastic enclosure

6.8 Light Pole mountable with 6" hose clamp





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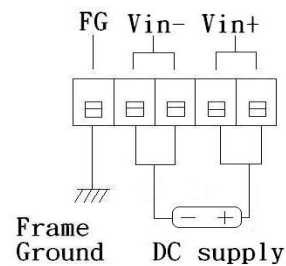
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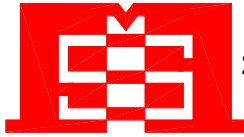
## 7 CONNECTORS & PINOUT : @1000Mbps

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

### Note :

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





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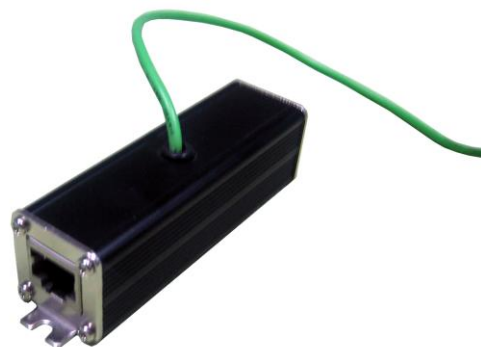
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## SPEC. of SURGE/LIGHTNING PROTECTION (MS-T100E)

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 $\mu$ s)
6. Nominal discharge current line-FG: 100A (10/1000 $\mu$ s,300 times with 3 mins interval)
7. Total nominal discharge current line-FG: 5KA (8/20 $\mu$ 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:  $\leq 5$  PF
13. Capacitance line-FG:  $\leq 5$  PF
14. Operating temperature range: -40°C to +80°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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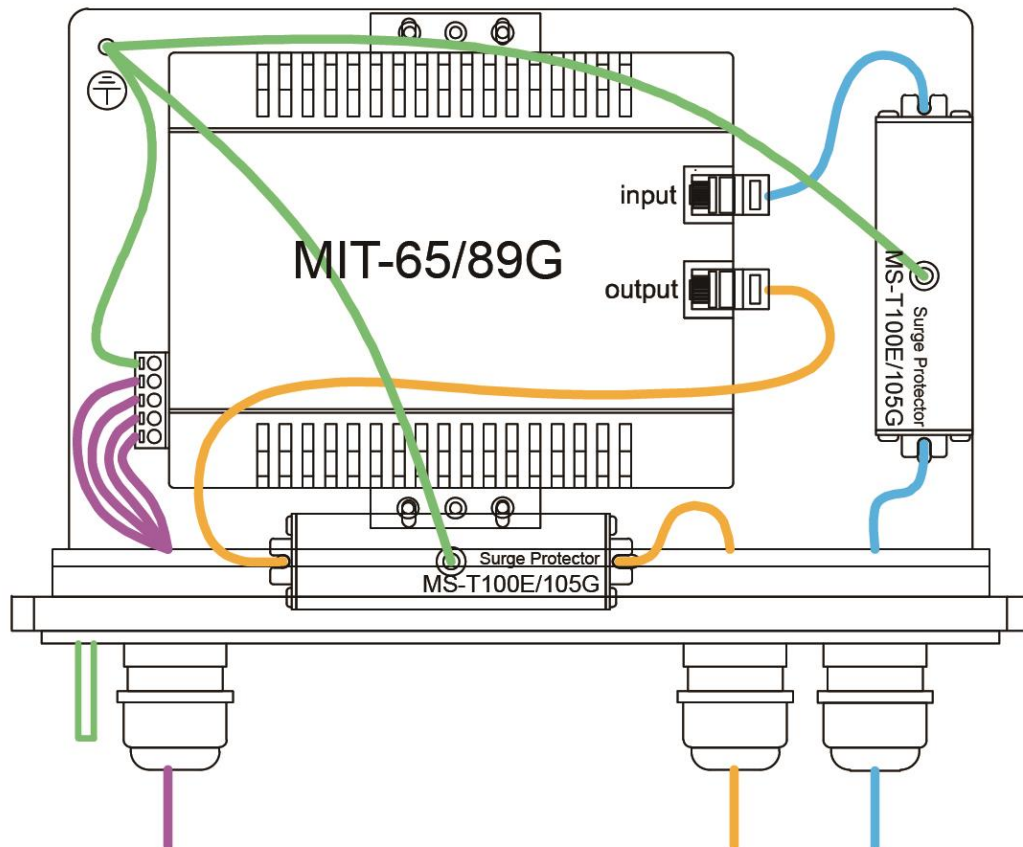
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## Application:



————— POE OUT

————— DATA IN

————— Ground

————— DC IN



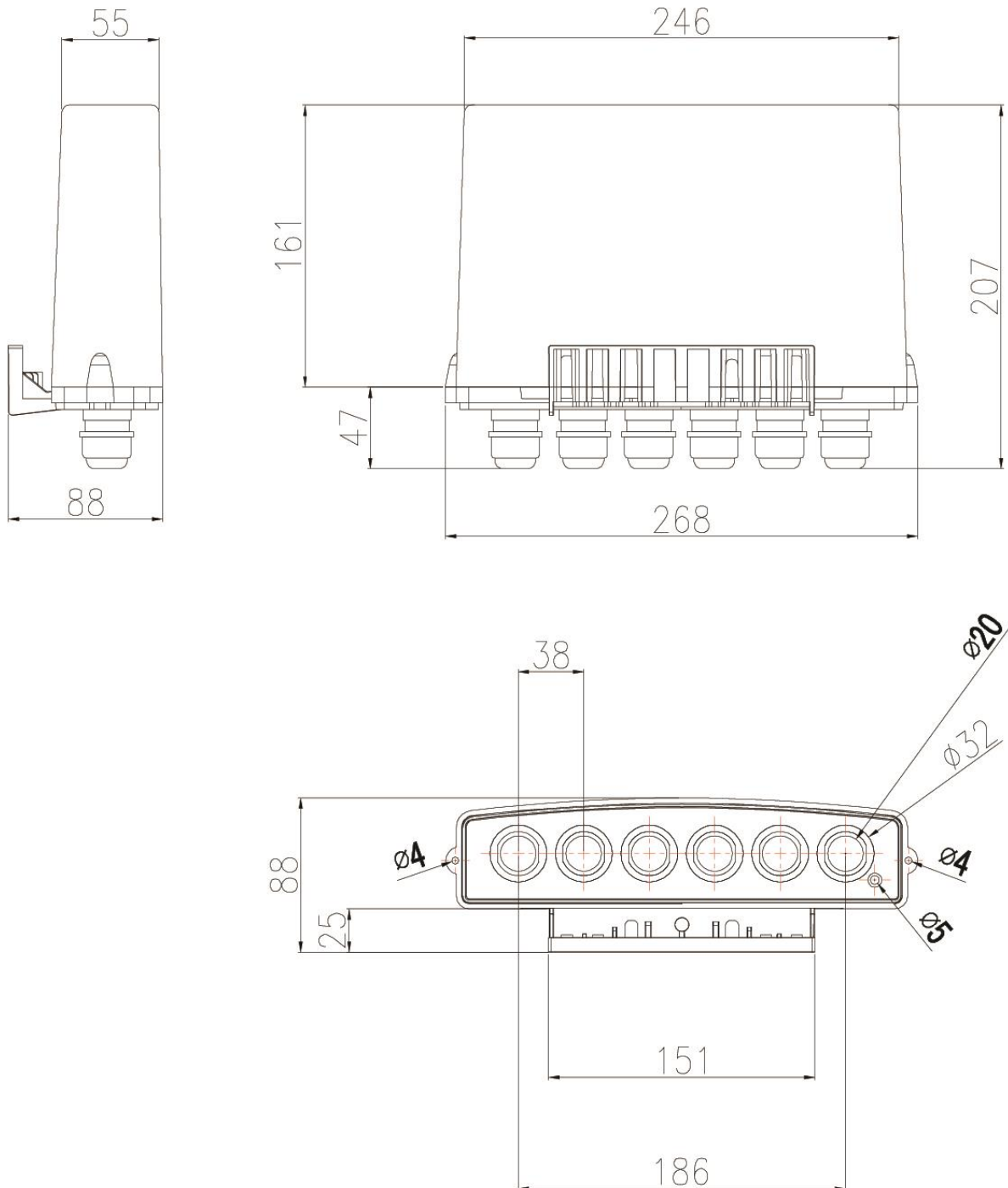
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## prepare for pole mounting

1



put the hose clamp  
though the designate holes



2

add two mounting helpers  
to designated position  
make sure the direction

3

final

