



# MSTronic Co., Ltd.

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

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

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## **MIT-70G-1256BNNN**

### **PoE Injector**

### **DC/DC, Gigabit, Passive**

## SPECIFICATION

### 1. INPUT :

- 1.1 Input Voltage: 10Vdc to 15Vdc Normal = 12V
- 1.2 Input Current:
  - 6.2A at 10Vdc
  - 4.8A at 12Vdc
  - 3.9A at 15Vdc

### 2. OUTPUT :

#### 2.1 Output Voltage & Current:

|             |        |
|-------------|--------|
| OUTPUT      | +56V   |
| Max. load   | 0.892A |
| Power       | 50W    |
| Min. Load   | 0A     |
| Load reg. % | 5%     |
| Line reg. % | 1%     |
| Ripple %    | 1%     |
| Noise %     | 1%     |

TOTAL POWER : 50W

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 : 88% min at Full Load , 10Vdc to 15Vdc 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 IEC 62368-1.

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

#### 4.5 IEEE 802.3at compliant

#### 4.6 Over Current : 120% ~ 160% @12Vdc Input F.L

#### 4.7 Input Polarity Reverse Protection -----NO Work



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4.8 Input Over Voltage Protection : 15.3V ~ 15.8V Turn-off Input Voltage.

4.9 Input Over low Voltage Protection : 8.8V ~ 9.3V Turn-off Input Voltage.

## 5. GENERAL DESCRIPTION

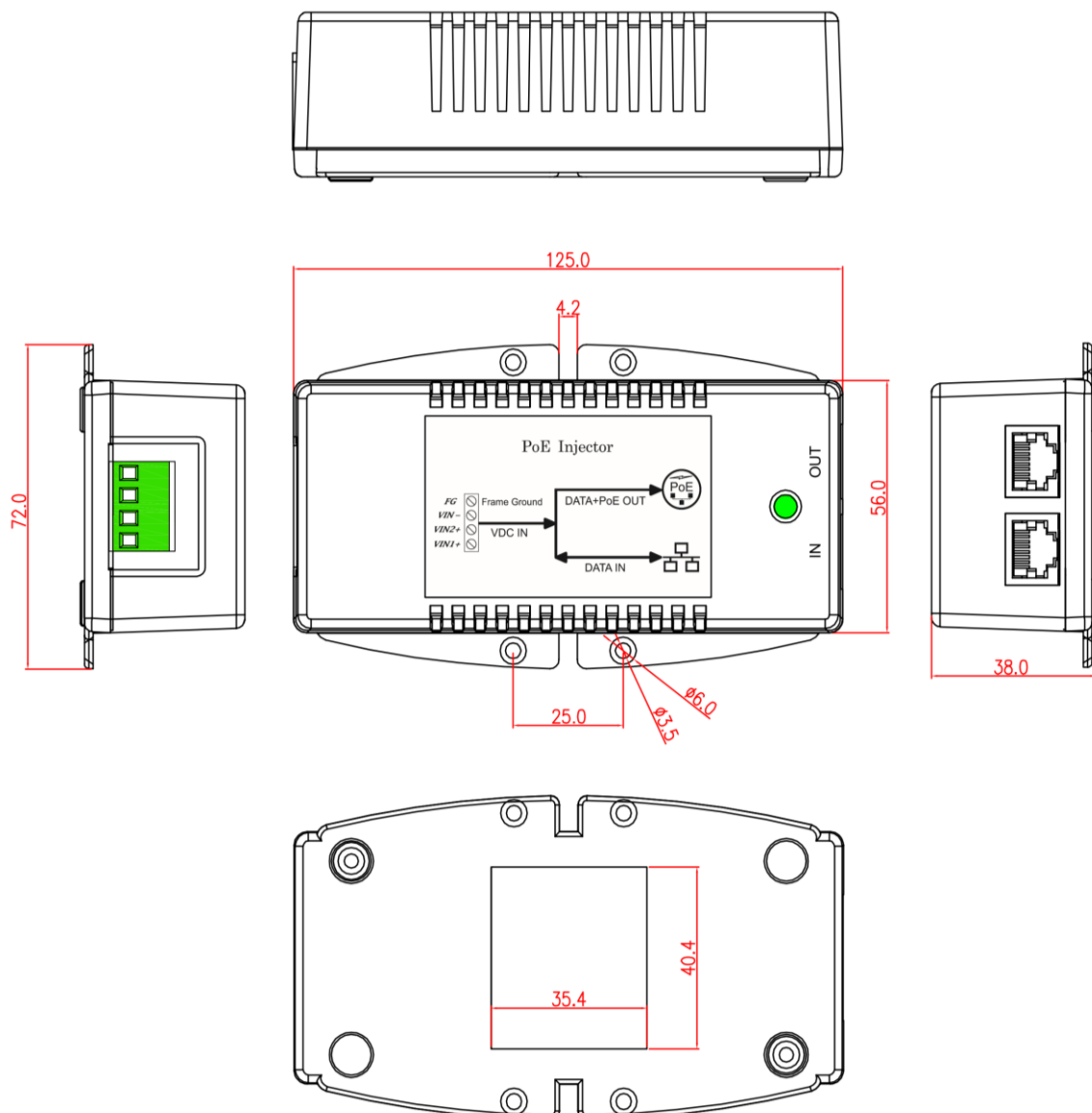
5.1 Operation Temperature: -40 - +70 Degree (certificated +40C)

5.2 Storage Temperature: -40 - +85 Degree

5.3 Operation Humidity: 5% - 90%

5.4 Cooling: Free air cooling

5.5 SIZE : 125\*72\*38 (L)\*(W)\*(H) unit: m/m DIN rail mountable





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## 6. Indicator :

6.1 the LED lights GREEN means Power OK

## 7 CONNECTION :

RJ45 Connection and pin out: @1000MBASE

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

## 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                 | All 8 pin protected                                                                                                        |
| Max. Shut Capacitance         | <3pF (VR = 0V, f = 1MHz, I/O pin to GND)<br>< 1.5 pF (VR = 0V, f = 1MHz, Between I/O pins)                                 |
| IEC COMPATIBILITY (EN61000-4) | IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)<br>IEC61000-4-4 (EFT) 40A (5/50ns)<br>IEC61000-4-5 (Lightning) 20A (8/20μs) |



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| 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    | 80 %     |
| 60°C    | 70 %     |
| 70°C    | 70 %     |

