



# MSTronic Co.,Ltd.

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

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## **MIT 77N-48BNNH**

### **AC/DC PoE Injector**

#### 1. INPUT :

- 1.1 Input Voltage: 100Vac to 240Vac
- 1.2 Input Frequency: 47-63 hz
- 1.3 Input Current: 0.46A at 120Vac  
0.26A at 230Vac

#### 2. OUTPUT :

##### 2.1 Output Voltage & Current:

|             |       |
|-------------|-------|
| OUTPUT      | 48V   |
| Max. load   | 0.52A |
| Power       | 25W   |
| Min. Load   | 0A    |
| Load reg. % | 5%    |
| Line reg. % | 1%    |
| Ripple %    | 1%    |
| Noise %     | 1%    |

TOTAL POWER :24W

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

#### 3. EFFICIENCY : 87% min at Full Load , 120Vac & 230Vac 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 High Pot: 4242Vdc, 60Sec, Input Terminal to output Terminal.

#### 5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -40 - +70 Degree
- 5.2 Storage Temperature: -40 - +85 Degree
- 5.3 Operation Humidity: 5% - 90%
- 5.4 Cooling: Free air cooling
- 5.5 SIZE : 86\*78\*36 (L)\*(W)\*(H) unit: m/m



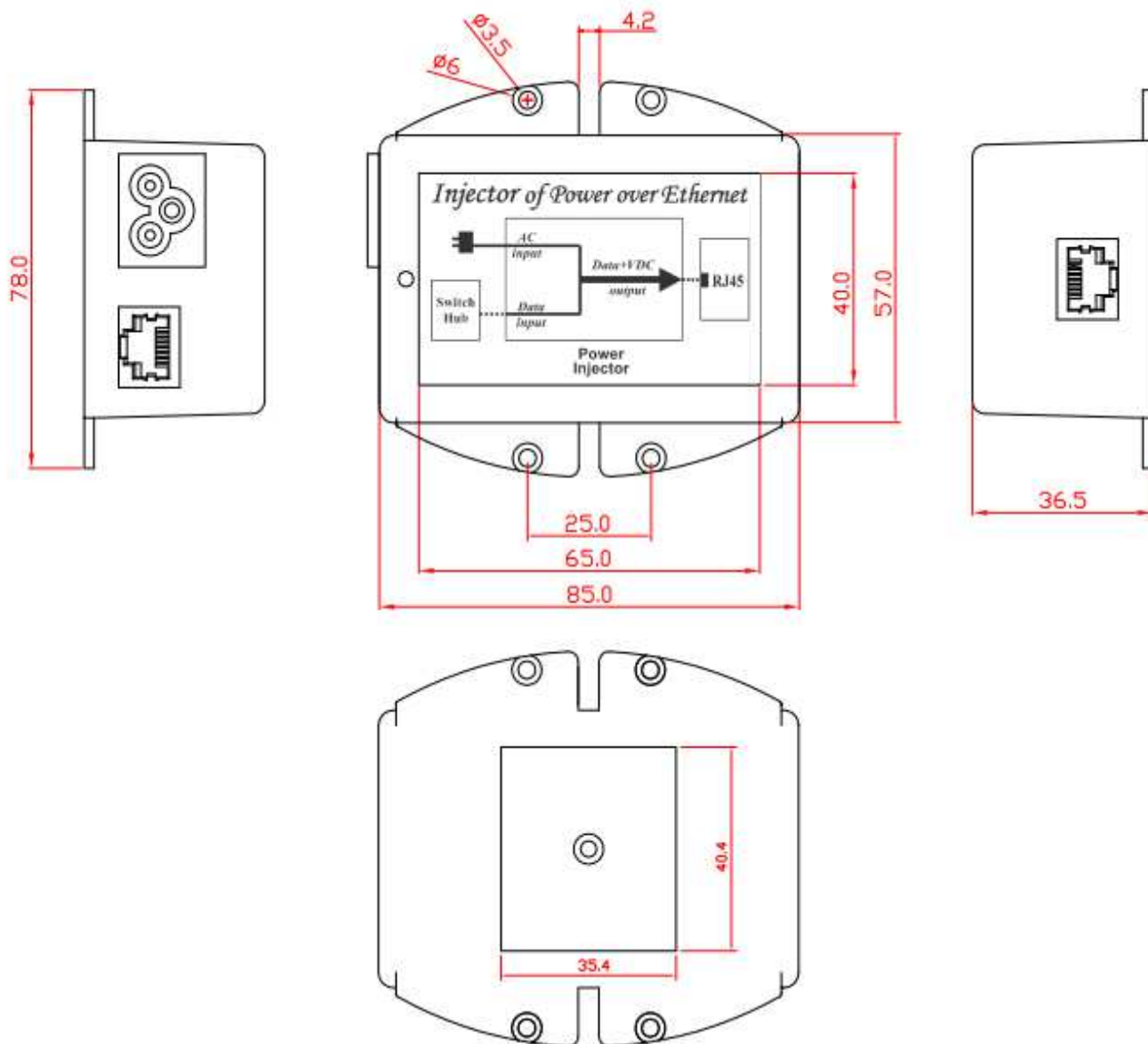
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## 6. SPEC. of SURGE/LIGHTNING PROTECTION

|                               |  |
|-------------------------------|--|
|                               | 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) |

## 8. Indicator :

8.1 LED (GREEN) indicates PWR – OK

## 9 CONNECTION :

| RJ-45 Input (Data Only) |        |               | RJ-45 Output (Data & Power) |                  |
|-------------------------|--------|---------------|-----------------------------|------------------|
| Pin                     | Symbol | Description   | Symbol                      | Description      |
| 1                       | RX+    | Data Receive  | RX+                         | Data Receive     |
| 2                       | RX-    | Data Receive  | RX-                         | Data Receive     |
| 3                       | TX+    | Data Transmit | TX+                         | Data Transmit    |
| 4                       | NC     | Not Connector | +Vdc                        | Feeding power(+) |
| 5                       | NC     | Not Connector | +Vdc                        | Feeding power(+) |
| 6                       | TX-    | Data Transmit | TX-                         | Data Transmit    |
| 7                       | NC     | Not Connector | -Vdc                        | Feeding power(-) |
| 8                       | NC     | Not Connector | -Vdc                        | Feeding power(-) |

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



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## Application of POE ( Power over Ethernet )

