



# MSTronic Co., Ltd.

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

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

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

## MIT-96T-A2456BDNM

### PoE Injector

24VAC/DC, 5G/10G, 802.3at

### SPECIFICATION

#### 1. INPUT :

- 1.1 Input Voltage: 22Vac to 30Vac Normal=24Vac
- 1.2 Input Current: 2.98A at 22Vac  
2.81A at 24Vdc  
2.27A at 30Vdc

#### 2. OUTPUT :

##### 2.1 Output Voltage & Current:

|             |        |
|-------------|--------|
| OUTPUT      | +56V   |
| Max. load   | 0.625A |
| Power       | 35W    |
| Min. Load   | 0A     |
| Load reg. % | 5%     |
| Line reg. % | 1%     |
| Ripple %    | 1%     |
| Noise %     | 1%     |

TOTAL POWER : 35W

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 : 75% min at Full Load , 22 ~ 30Vac 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, EN45545

4.4 EMC : meet FCC Class B, EN55032 Class B, EN60945, EN50155,



# MSTronic Co., Ltd.

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

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

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

4.5 PoE : compliant to 802.3at mode B, class 0.

## Warning :

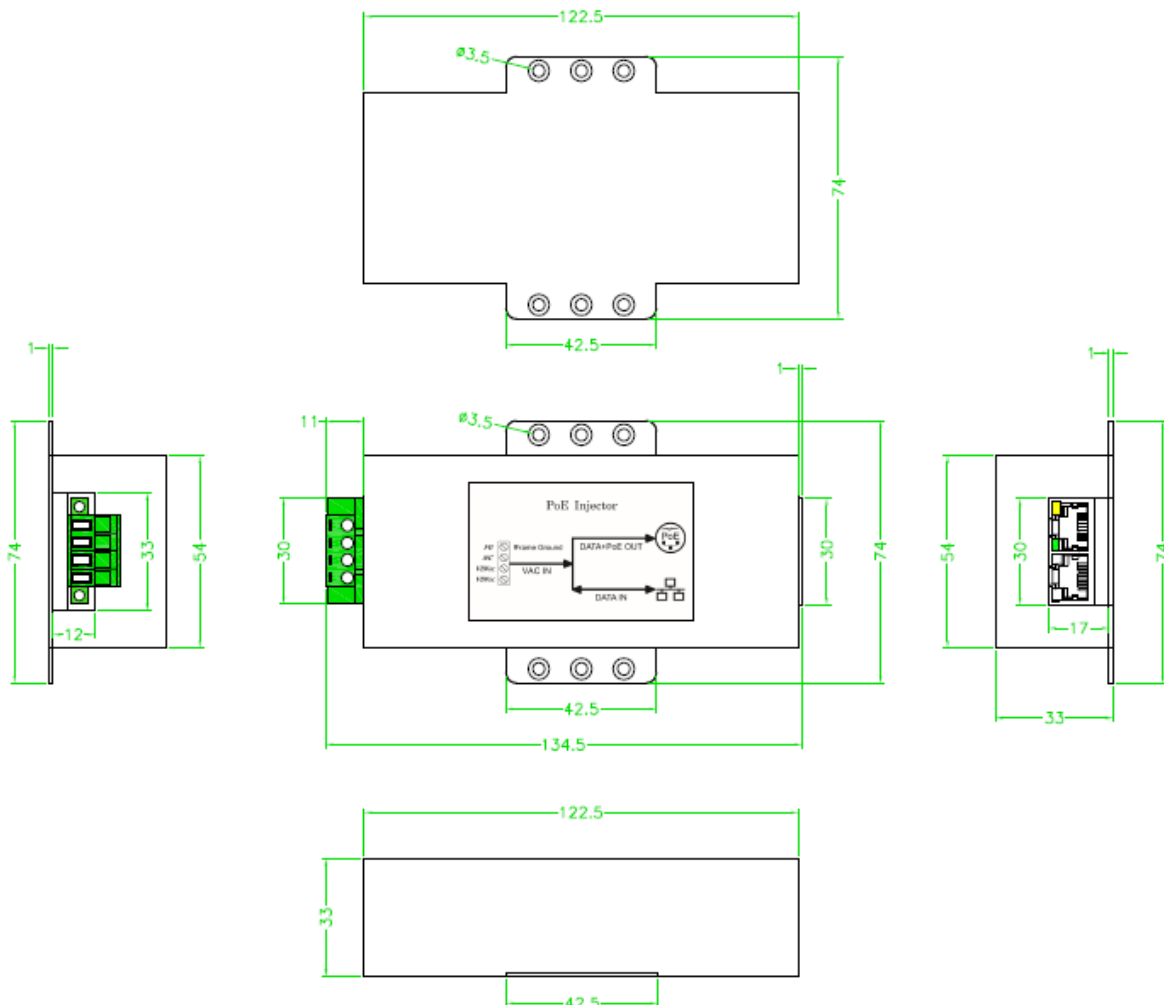
Input Fuse(T4A-63V) Must Installation at Line and Line. (The fuse must be installed on one of the wires.)

**It is strongly recommended to install an inductor at the input (minimum 1mH)**

The ground of the power supply must be connected to the ground of the load, and also to the ground of the machine

## 5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -40C - +40C
- 5.2 Storage Temperature: -40C - +85C
- 5.3 Operation Humidity: 5% - 90%
- 5.4 Cooling: Free air cooling
- 5.5 Dimensions: 134.5\*74\*33 (L\*W\*H)m/m DIN rail mountable





# MSTronic Co., Ltd.

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

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

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

## 6. Indicator:

6.1 power ready: YELLOW on

6.2 802.3at output: GREEN on

## 7. RJ45 Connected and pin out: @5G/10G (@CAT6A)

| 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 :

1. the model is isolated design.

2. 5Gbps@100m/70C

10Gbps@50m/25C

