



# MSTronic Co.,Ltd.

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

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

E.MAIL: mse@mse.com.tw  
WEB: http://www.mse.com.tw

## MIT 77G-48ANNN

### Gigabit 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	0.5A
Power	24W
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.

##### 4.4 Meet Level 6 (USA-VI )

#### 5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -25 - +50 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

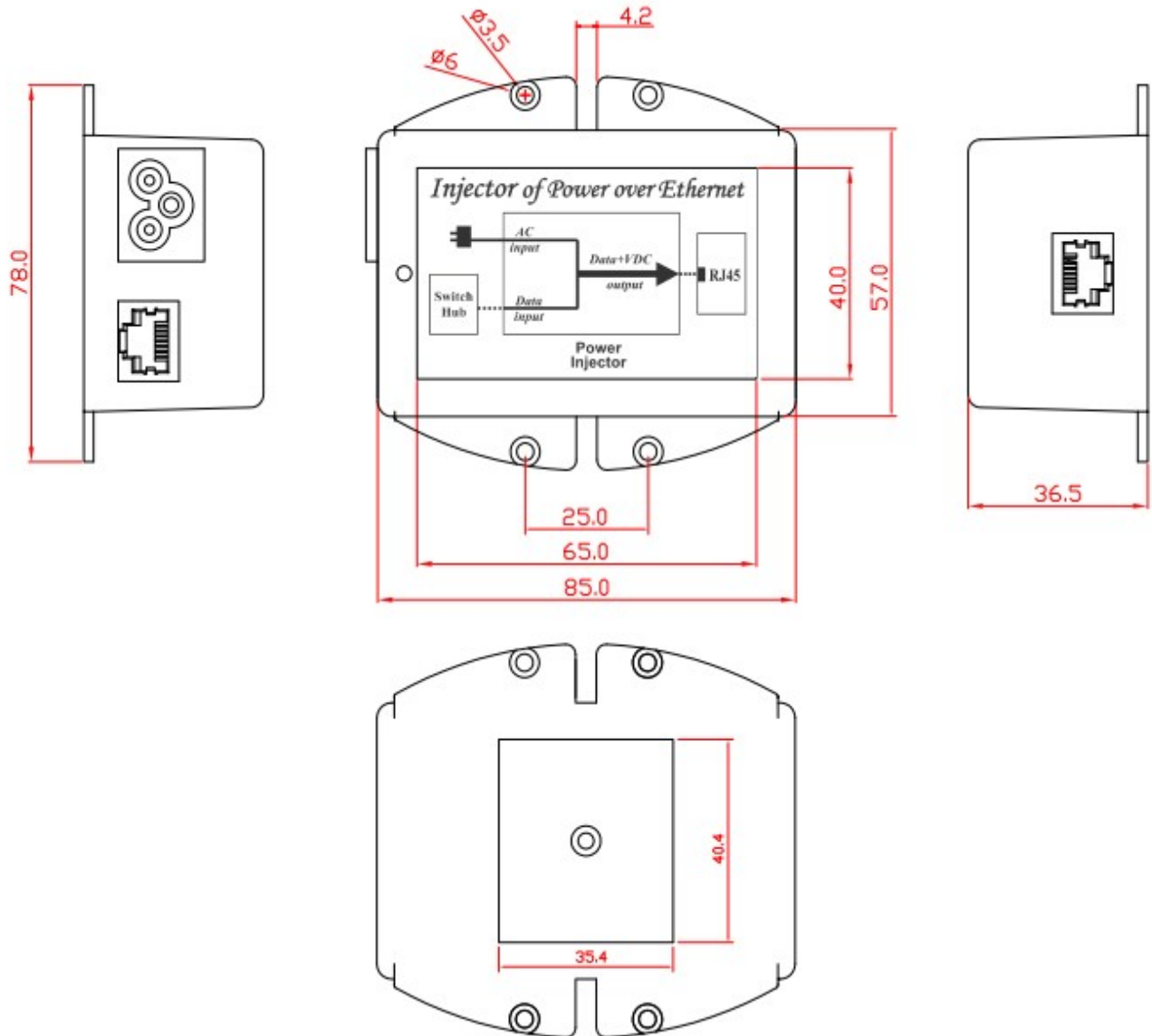


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## 6. SPEC. of SURGE/LIGHTNING PROTECTION

	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) < 1.5 pF (VR = 0V, f = 1MHz, Between I/O pins)
IEC COMPATIBILITY (EN61000-4)	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns) IEC61000-4-5 (Lightning) 20A (8/20μs)



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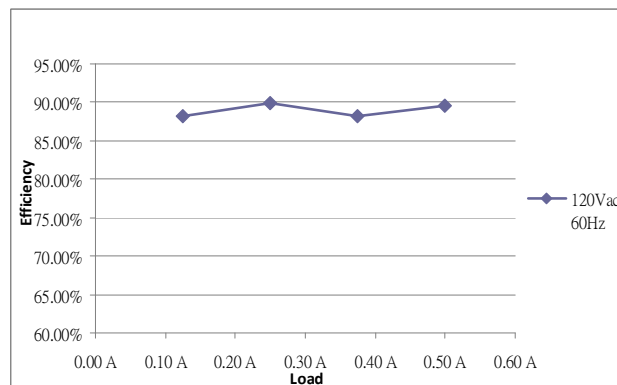
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## 7. USA-VI

<b>MODEL NAME: MIT-77G-48ANNN</b>			
<b>Rated Vout</b>	<b>48 V</b>	<b>DoE Level VI (USA-VI 级)</b>	
<b>Rated Iout</b>	<b>0.50 A</b>	<b>Average</b>	<b>No-Load</b>
<b>Rated Power</b>	<b>24 W</b>	<b>≥ 86.20%</b>	<b>&lt;100mW</b>

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
<b>120Vac 60Hz</b>	<b>6.90 W</b>	<b>48.71 V</b>	<b>0.13 A</b>	<b>6.09 W</b>	<b>88.24%</b>	<b>88.97%</b>
	<b>13.50 W</b>	<b>48.57 V</b>	<b>0.25 A</b>	<b>12.14 W</b>	<b>89.94%</b>	
	<b>20.60 W</b>	<b>48.44 V</b>	<b>0.38 A</b>	<b>18.17 W</b>	<b>88.18%</b>	
	<b>27.00 W</b>	<b>48.33 V</b>	<b>0.50 A</b>	<b>24.17 W</b>	<b>89.50%</b>	
<b>No-Load</b>	<b>90mW</b>					

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
<b>230Vac 50Hz</b>	<b>6.90 W</b>	<b>48.69 V</b>	<b>0.13 A</b>	<b>6.09 W</b>	<b>88.21%</b>	<b>89.94%</b>
	<b>13.30 W</b>	<b>48.56 V</b>	<b>0.25 A</b>	<b>12.14 W</b>	<b>91.28%</b>	
	<b>20.30 W</b>	<b>48.43 V</b>	<b>0.38 A</b>	<b>18.16 W</b>	<b>89.46%</b>	
	<b>26.60 W</b>	<b>48.32 V</b>	<b>0.50 A</b>	<b>24.16 W</b>	<b>90.83%</b>	
<b>No-Load</b>	<b>150mW</b>					





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## 8. Indicator :

8.1 LED (GREEN) indicates PWR – OK(at has Load)

## 9 CONNECTION :

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	-Vdc + BI_DA+	power(-)+Data Pair A+
2	BI_DA-	Data Pair A-	-Vdc + BI_DA-	power(-)+Data Pair A-
3	BI_DB+	Data Pair B+	+Vdc + BI_DB+	power(+)+Data Pair B+
4	BI_DC+	Data Pair C+	BI_DC+	Data Pair C+
5	BI_DC-	Data Pair C-	BI_DC-	Data Pair C-
6	BI_DB-	Data Pair B-	+Vdc + BI_DB-	power(+)+Data Pair B-
7	BI_DD+	Data Pair D+	BI_DD+	Data Pair D+
8	BI_DD-	Data Pair D-	BI_DD-	Data Pair D-

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

## Application of POE (Power over Ethernet)

