



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-48BDNN

Gigabit PoE Injector

1. INPUT :

- 1.1 Input Voltage: 100Vac to 240Vac
- 1.2 Input Frequency: 47-63 hz
- 1.3 Input Current: 0.33A at 120Vac
0.16A at 230Vac

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	48V
Max. load	0.35A
Power	17W
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER :17W

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: -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



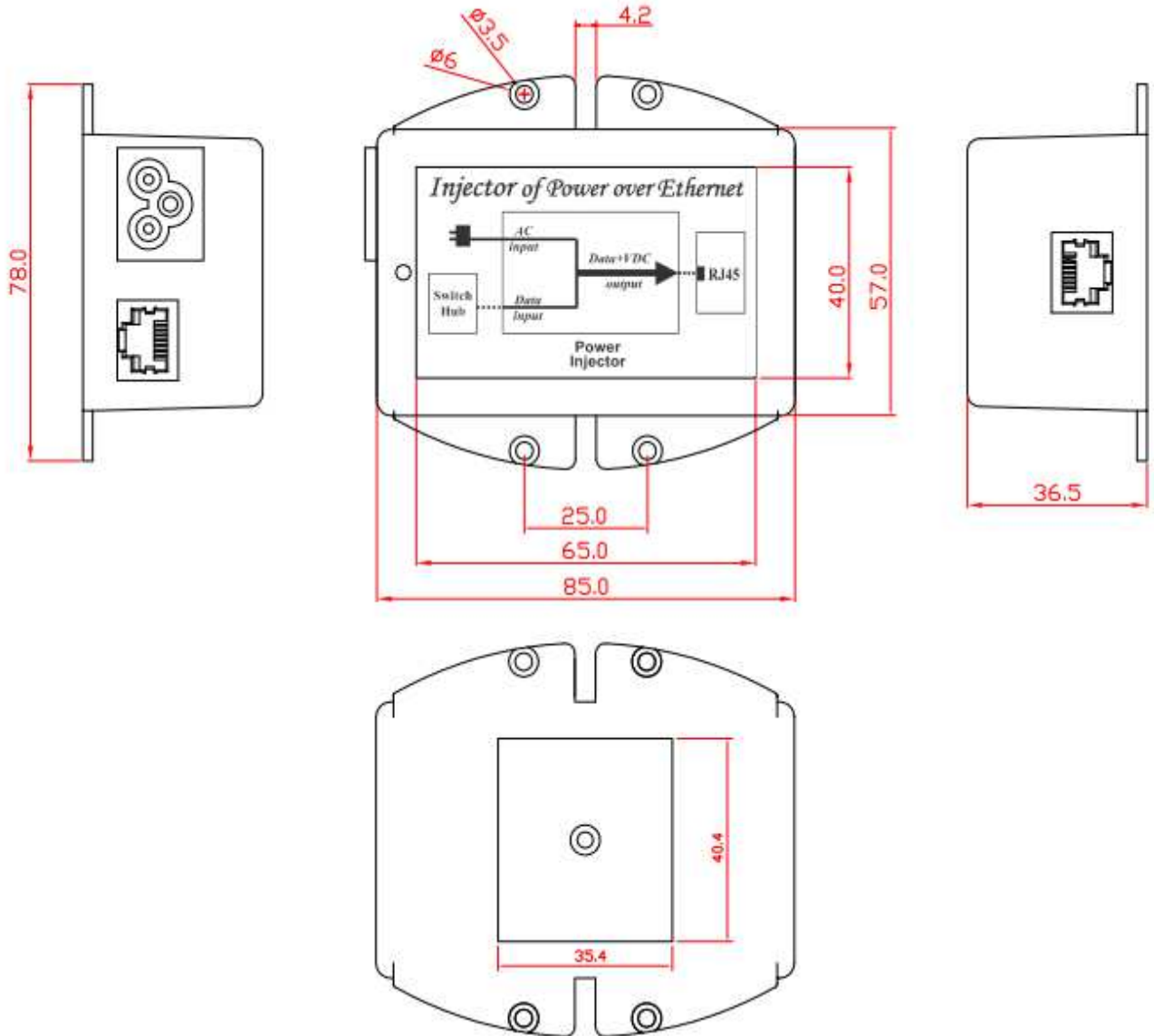
MSTronic Co.,Ltd.

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>





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>

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)



MSTronic Co.,Ltd.

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

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

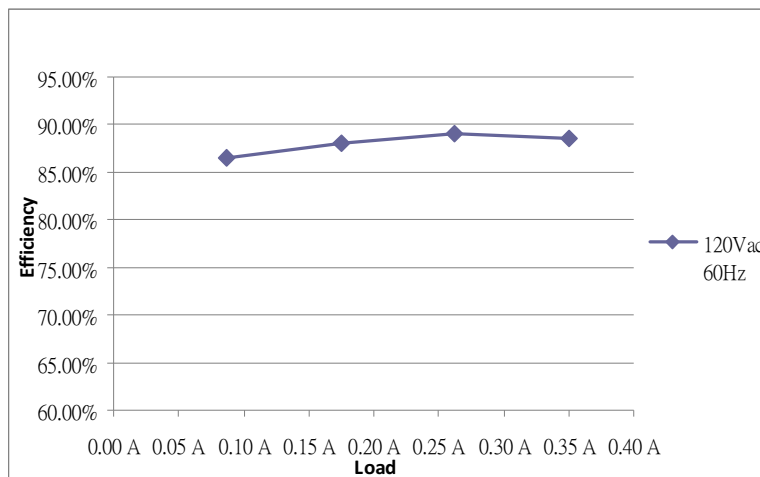
E.MAIL: mse@mse.com.tw
 WEB: http://www.mse.com.tw

7. USA-VI

MODEL NAME: MIT-77G-48BDNN			
Rated Vout	48 V	DoE Level VI (USA-VI 级)	
Rated Iout	0.35 A	Average	No-Load
Rated Power	17 W	≥ 86.20%	<100mW

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
120Vac 60Hz	4.90 W	48.41 V	0.09 A	4.24 W	86.45%	87.99%
	9.60 W	48.26 V	0.18 A	8.45 W	87.97%	
	14.20 W	48.17 V	0.26 A	12.64 W	89.05%	
	19.00 W	48.03 V	0.35 A	16.81 W	88.48%	
No-Load	380mW					

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
230Vac 50Hz	4.80 W	48.41 V	0.09 A	4.24 W	88.25%	89.45%
	9.40 W	48.26 V	0.18 A	8.45 W	89.85%	
	14.00 W	48.16 V	0.26 A	12.64 W	90.30%	
	18.80 W	48.03 V	0.35 A	16.81 W	89.42%	
No-Load	450mW					





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

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	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, the output +/- or input +/- can be shorted to ground (FG).

Application of POE (Power over Ethernet)

