



MSTronic Co.,Ltd.

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MIT 77G-24BNNN

Gigabit PoE Injector

1. INPUT :

- 1.1 Input Voltage: 100Vac to 240Vac
- 1.2 Input Frequency: 47-63 hz @Normal 50 ~ 60hz
- 1.3 Input Current: 0.45A at 120Vac
0.25A at 230Vac

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	24V
Max. load	0.8A
Power	19.2W
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER :19.2W

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



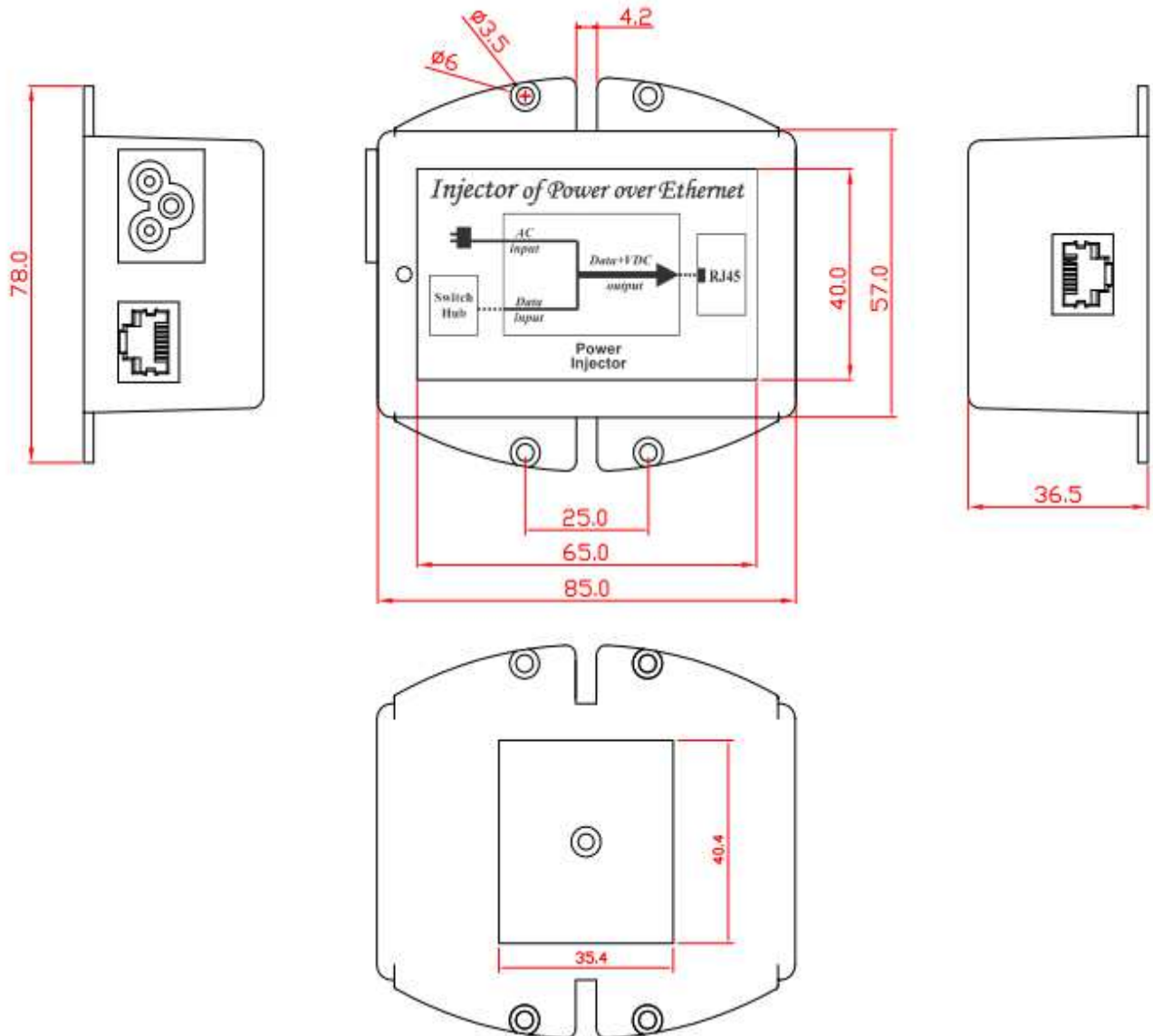
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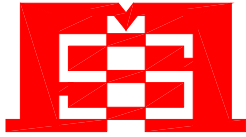
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6. SPEC. of SURGE/LIGHTNING PROTECTION

	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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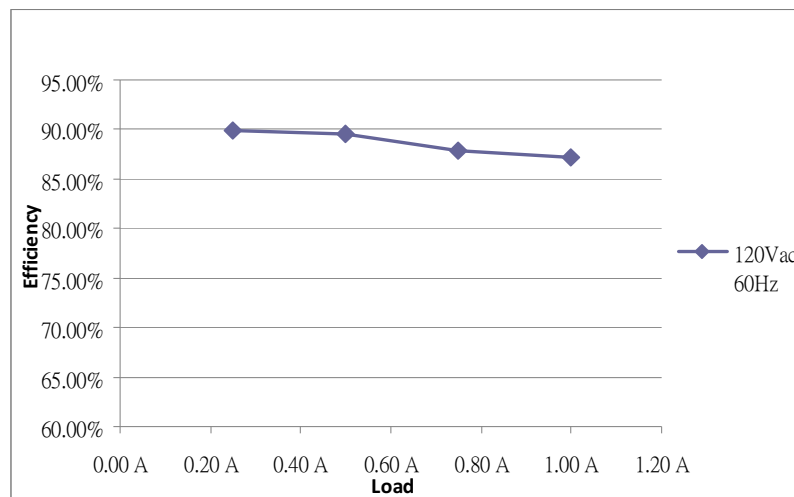
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7. USA-VI

MODEL NAME: MIT-77G-24BNNN			
Rated Vout	24 V	DoE Level VI (USA-VI 级)	
Rated Iout	0.8 A	Average	No-Load
Rated Power	19.2 W	≥ 86.20%	<100mW

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
120Vac 60Hz	5.44 W	24.47 V	0.20 A	4.89 W	89.96%	88.65%
	10.89 W	24.38 V	0.40 A	9.75 W	89.63%	
	16.59 W	24.25 V	0.60 A	14.55 W	87.86%	
	22.16 W	24.14 V	0.80 A	19.31 W	87.15%	
No-Load	69mW					

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
230Vac 50Hz	5.28 W	24.46 V	0.20 A	4.89 W	92.65%	90.62%
	10.66 W	24.35 V	0.40 A	9.75 W	91.54%	
	16.27 W	24.24 V	0.60 A	14.55 W	89.56%	
	21.79 W	24.14 V	0.80 A	19.31 W	88.75%	
No-Load	130mW					





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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)

