



MSTronic Co., Ltd.

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MIT-79G-56BNNN

Gigabit PoE Injector

1. INPUT :

- 1.1 Input Voltage: AC 100V ~ 240V
- 1.2 Input Frequency : 50 /60hz
- 1.3 Input Current: 1.12A at 100Vac @F.L
0.63A at 240Vac
- 1.4 Inrush current: 25A Max at 120Vac & 60A Max at 230Vac

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	0.9A
Power	50.4W Max
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	2%

TOTAL POWER :50.4 W

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz. Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

3. EFFICIENCY : 88% min. at AC 120V Input @F.L

4. PROTECTION

4.1 Short Circuit Protection

Output Short GND Terminal will not damage the Power Supply will Auto-Recover when Load status going to normally.

4.2 Over Voltage Protection : 59V ~ 65V

4.3 Over Current Limits : 150% ~ 200% @100V ~ 240Vac

4.4 Input with Fuse Protection

4.5 LED indicates PWR – OK

4.6 Hold up time: 6mS min. at maximum load &120Vac Input.



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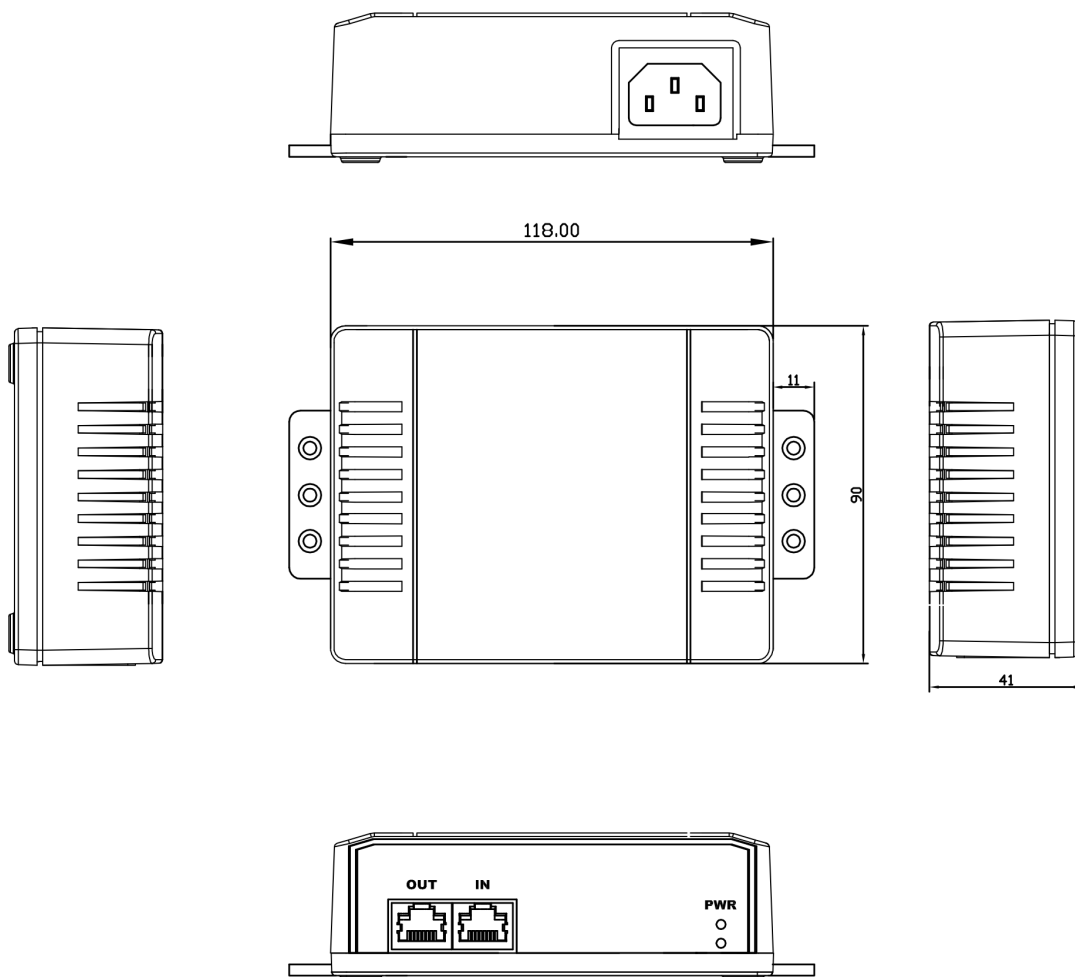
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- 5.1 EMC: EN55032 Class B, FCC Class B
- 5.2 SAFETY: IEC60950-1, EN 60950-1 (2nd Edition)
- 5.3 Efficiency: meet Level 6 (USA-VI)

6. GENERAL DESCRIPTION

- 6.1 Operation Temperature: -25 - +50 °C
- 6.2 Storage Temperature: -40 - +85 °C
- 6.3 Operation Humidity: 5% - 90%RH (non-condensing)
- 6.4 Cooling: Free air cooling
- 6.5 SIZE 90*118*41mm (L*W*H) DIN rail mountable





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7.1 RJ45 pin assignment: @1000MBASE

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-
S	Shield	Shield	Shield	Shield

7.2 the input and output RJ45s with metal enclosure for shield, connected to FG.

8 . Level 6 (USA-VI)

Level VI efficiency standards		
AC-DC, Basic-Voltage External Power Supply		
Nameplate Output Power Power (Pout)	Minimum Average Efficiency	Maximum Power in No-Load Mode [W]
0 to ≤1watt	$\geq 0.5 * P_{out} + 0.16$	≤ 0.10
>1 to ≤49watts	$\geq 0.071 * \ln(P_{out}) - 0.0014 * P_{out} + 0.67$	≤ 0.10
>49watts to ≤250watts	≥ 0.880	≤ 0.21
>250watts	0.875	≤ 0.50

Level VI efficiency standards

MODEL NAME: MIT-79G-56BNNN			
Rated Vout	56 V	DoE Level VI (USA-VI 级)	
Rated Iout	0.90 A	Average	No-Load



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Rated Power	50 W	≥ 88.00%	<210mW
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Vin	Pin	Vout	Iout	Pout	Efficiency	Average
120Vac 60Hz	14.20 W	56.24 V	0.23 A	12.65 W	89.11%	89.19%
	28.10 W	56.17 V	0.45 A	25.28 W	89.95%	
	42.50 W	56.09 V	0.68 A	37.86 W	89.08%	
	56.90 W	56.01 V	0.90 A	50.41 W	88.59%	
No-Load	95mW					

Vin	Pin	Vout	Iout	Pout	Efficiency	Average
230Vac 50Hz	14.80 W	56.26 V	0.23 A	12.66 W	85.53%	89.24%
	28.10 W	56.18 V	0.45 A	25.28 W	89.97%	
	42.10 W	56.10 V	0.68 A	37.87 W	89.95%	
	55.10 W	56.03 V	0.90 A	50.43 W	91.52%	
No-Load	192mW					

