



MSTronic Co., Ltd.

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SPECIFICATION

MIT-51G-56D

Ultra High PoE Injector

1. INPUT :

- 1.1 Input Voltage: AC 100V ~ 240V $\pm 10\%$
- 1.2 Input Frequency : 47 ~ 63Hz
- 1.3 Input Current: 1.50A at 120Vac @F.L PF > 0.98
0.6A at 230Vac @F.L PF > 0.95
- 1.4 Inrush current: 25A Max at 120Vac & 50A Max at 230Vac

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	2.0A
Power	112W Max
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	2%

TOTAL POWER :112 W

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

Note 2: for 10/100M operation is 2A, gigabit operation 1.5A.

- 3. EFFICIENCY : 88% min. at AC 120V Input @F.L
88% min. at AC 240V 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 : 58V ~ 60V
- 4.3 Over Current Limits : 120% ~ 150% @100V ~ 240Vac
- 4.4 LED Indicate SENSE – OK



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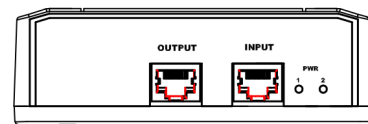
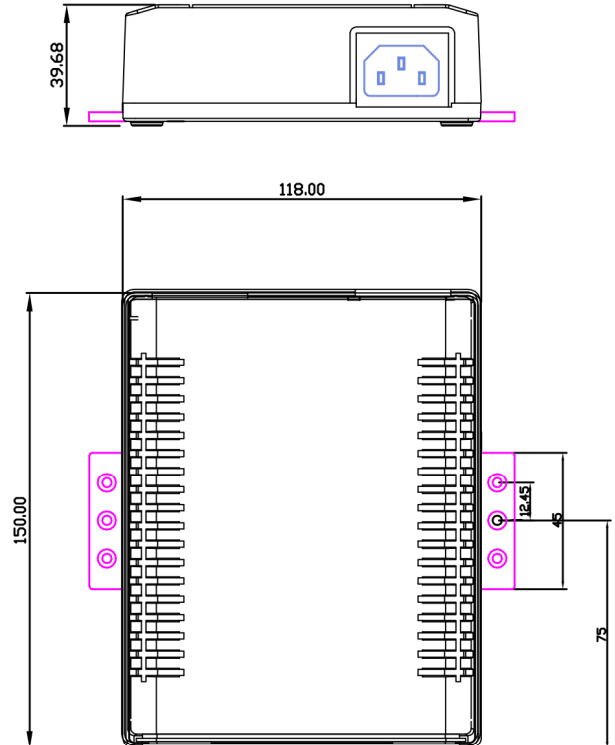
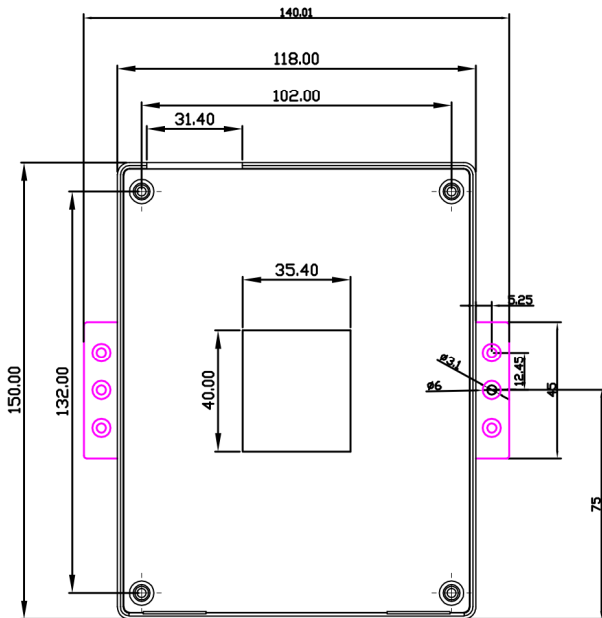
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- 5. EMC : Meet FCC Class B EN55022 Class B
- 5.1 SAFETY STANDARD : Meet UL1950, CSA 22.2 &TUV EN60950
- 5.2 Hold up time :8mS min. at maximum load &120Vac Input.

6. GENERAL DESCRIPTION

- 6.1 Operation Temperature: -40 - +50 Degree
- 6.2 Storage Temperature: -40 - +85 Degree
- 6.3 Operation Humidity: 5% - 90%
- 6.4 Cooling: Free air cooling
- 6.5 SIZE 118*150*40 (L*W*H)





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7. RJ45 Pin Assignment : @1000M

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+	+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-	+Vdc + BI_DB-	power(+)+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-

8. INDICATOR :'

1. LED1(RED) Indicate POE Output no valid detection.
 2. LED2(GREEN) Indicate POE Output to LTPoE++ detected /at PD
- LTC4274A-4 : USE



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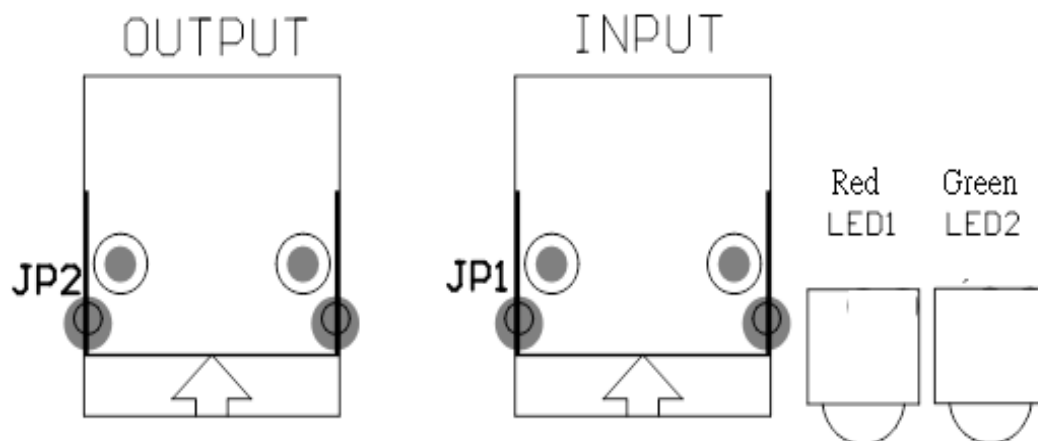


LTC4274A/LTC4274C

Single PoE/PoE+/LTPoE++
PSE Controller

FEATURES

- Compliant with IEEE 802.3at Type 1 and 2
- Low Power Dissipation
 - 0.25Ω Sense Resistance Per Channel
- Very High Reliability 4-Point PD Detection
 - 2-Point Forced Voltage
 - 2-Point Forced Current
- High Capacitance Legacy Device Detection
- Supports 2-Pair and 4-Pair Output Power
- Available in Multiple Power Grades
 - LTC4274A-1: LTPoE++™ 38.7W
 - LTC4274A-2: LTPoE++ 52.7W
 - LTC4274A-3: LTPoE++ 70W
 - LTC4274A-4: LTPoE++ 90W
 - LTC4274C: PoE 13W





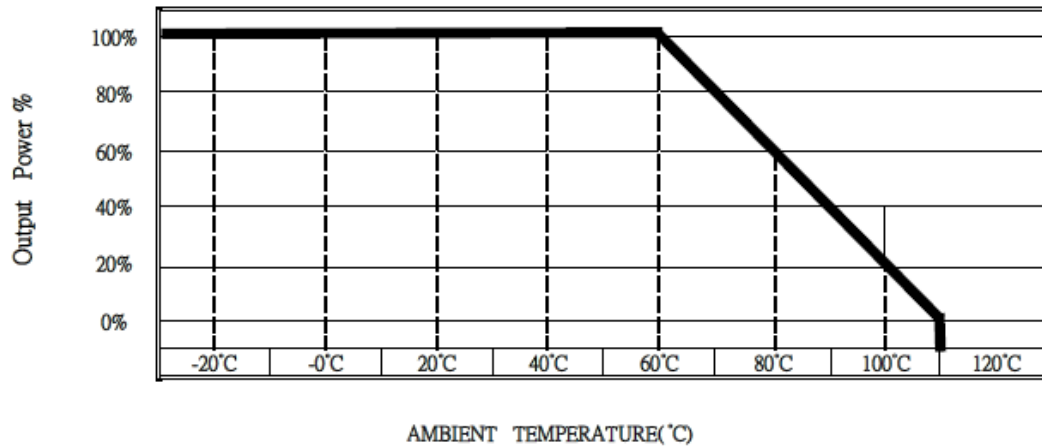
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RATING TEMPERATURE LIMITS AND OUTPUT POWER RANGE





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Model Name: MIT-51G-56D

Date: 03 / 10/ 2016

Input Voltage : 100 ~ 240 Vac

Output: 56V / 2 A

INPUT VOLTAGE	AC 90	AC 120	AC 230	AC 264
EFFICIENCY				
25%	85.89%	85.88%	83.05%	82.80%
50%	88.63%	89.32%	88.74%	88.72%
75%	88.62%	89.66%	89.95%	90.03%
100%	87.62%	89.02%	90.48%	92.12%

Average	87.69%	88.47%	88.05%	88.42%
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$$\text{Total Pout} = (54.73\text{V} + 0.54\text{V}) * 2 \text{ A} = 110.54 \text{ W}$$

LEVEL VI PERFORMANCE THRESHOLDS

The Level VI standard tightens performance thresholds for adapters in active mode and no-load conditions. Along with tightened regulations for adapters governed under previous regulations, the new standard expands the range of products that fall under the standard. Regulated products will now include:

- Multiple-voltage external power supplies
- Products with power levels >250 watts

The latest performance thresholds are summarized in the tables below:

SINGLE-VOLTAGE EXTERNAL AC-DC POWER SUPPLY ³ , BASIC-VOLTAGE		
Nameplate Output Power (P _{out})	Minimum Average Efficiency in Active Mode (expressed as a decimal)	Maximum Power In No-Load Mode (W)
P _{out} < 1 W	0.5 + P _{out} + 0.16	0.100
1 W < P _{out} < 49 W	0.871 + 0.0017 * P _{out} - 0.07	0.100
49 W < P _{out} < 250 W	0.880	0.210
P _{out} > 250 W	0.875	0.300