



MSTronic Co., Ltd.

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SPECIFICATION

DIN-POE10-2456D-BTx2

DC/DC Gigabit PoE Injector

802.3bt Compliant

1. INPUT :

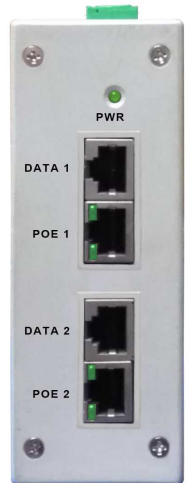
- 1.1 Input Voltage: DC 18V ~ 57V
- 1.2 Input Current: 5.60A at 18Vdc @F.L 90W
4.20A at 24Vdc @F.L 90W
1.75A at 57Vdc @F.L 90W

2. OUTPUT :

2.1 Output Voltage & Current:

| OUTPUT | POE 1 | POE 2 |
|-------------|------------|------------|
| Voltage | +56V | +56V |
| Max. load | 1.6A | 1.6A |
| Power | 90W Max(*) | 90W Max(*) |
| Min. Load | 0A | 0A |
| Load reg. % | 5% | 5% |
| Line reg. % | 1% | 1% |
| Ripple % | 1% | 1% |
| Noise % | 2% | 2% |

TOTAL POWER : 90W



3. EFFICIENCY : 90% min. at DC 24V Input @F.L

4. PROTECTION

4.1 Short Circuit Protection

Output short will not damage the model, it will auto-recover when load back to normal.

4.2 Over Current Limits : 120% ~ 130% @18V ~ 57Vdc



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4.3 Input with Fuse Protection

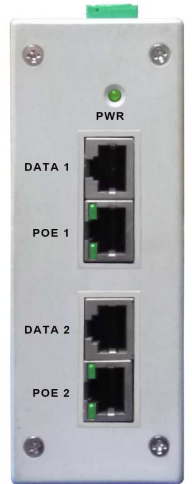
4.4 Input Reverse Protection-----NO Work

4.5 Indicators:

The PWR LED: light GREEN means input power OK.

The LEDs on RJ45s: light GREEN means POE Output –OK

(Upper for spare pairs, lower for data pairs)



5. GENERAL DESCRIPTION

5.1 Operation Temperature: -40 - +70 Degree

5.2 Storage Temperature: -40 - +85 Degree

5.3 Operation Humidity: 5% - 90% (40 Degree)

5.4 Cooling: Free air cooling

5.5 SIZE 46 x 125 x 102 mm (L*W*H)

6. CONNECTION : RJ45 pin assignment: @1000MBASE

| Pin | RJ-45 Input (Data Only) | | RJ-45 Output (Data & Power) | |
|-----|-------------------------|--------------|-----------------------------|-----------------------|
| | 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- |

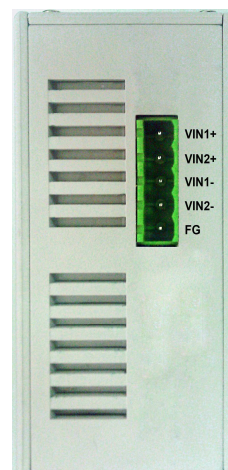
Note :

1. the model is isolated design, the output +/- or input +/- can be shorted to ground (FG).
2. The model with 802.3bt output, make sure your end device meet the 802.3bt protocol.

7. CONNECTOR FIGURE :

Input : HD-515RC (P2)

Allow two inputs for redundant.





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