



# MSTronic Co., Ltd.

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## SPECIFICATION

### MIT-36G-56PNN

#### Gigabit DC/DC PoE Injector

#### 1. INPUT :

- 1.1 Input Voltage: DC : 10V ~ 60V
- 1.2 Input Current :
  - 8.17A @10Vin at full load
  - 6.72A @12Vin at full load
  - 3.29A @24Vin at full load
  - 1.61A @48Vin at full load
  - 1.30A @60Vin at full load

#### 2. OUTPUT :

##### 2.1 Output Voltage & Current:

OUTPUT	56V
Max. load	1.25A
Power	70W Max.
Min. load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

Note 1: Noise bandwidth is from DC to 20Mhz. Ripple & Noise is measured by Paralleling a 0.1uF metalize capacitor on the test point.

#### 3. EFFICIENCY : 85% min at Full Load , 10Vdc ~ 60Vdc Input Voltage

#### 4. PROTECTION

##### 4.1 Short Circuit Protection

Output Short GND Terminal will not damage the Power Supply and will auto-Reset.



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- 4.2 Input with Fuse Protection.
- 4.3 Over Current : 110% ~ 120% @all DCV Input F.L
- 4.4 Input polarity Reverse Protection----- will not damage the Power Supply, NO work.
- 4.5 Input Over low Voltage Protection : 8V ~ 9V Turn-off Input
- 4.6 Surge protection on data input ports:
- 4.7 Data rate: auto-sense for speed and duplex for 10Base-T/100Base-T/1000Base-T/5Gbase-T,

## 5. INDICATOR:

- 5.1. LED(GREEN) Indicate POE Output OK.

## 6. GENERAL DESCRIPTION

- 6.1 Operation Temperature: -40 - +70 Degree
- 6.2 Storage Temperature: -40 - +85 Degree
- 6.3 Operation Humidity: 5% - 90%
- 6.4 Cooling: Free air cooling
- 6.5 SIZE : 40mm(H)x118mm(W)x90mm(D) DIN rail mountable

## 7. RJ45 pin out assignment: (10M/100M/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-

Note : the model is isolated design, the output +/- or input +/- can be shorted to ground (FG).



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## 8. CONNECTOR:

Input : HD-515RC (P1) (Green) or DIN 4P

Allow two inputs for redundant.

1	2	3	4	5
FG	Vin(-)	Vin(-)	Vin(+)	Vin(+)

