

POE Active Splitter with Isolation



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 : 78% min @-48Vin dc

4. PROTECTION

4.1 Short Circuit Protection
output Short GND Terminal will not damage the Power Supply and will Auto-Reset.
Mode is current limits($I_{O(lim)} = i_o * 1.5 \text{ max}$)

Function:

FUNCTION: MStronic's MIT-06I Power over Ethernet (PoE) Active Splitter offers a compact and cost effective, for remote powering of WLAN Access Points, VoIP and network security cameras.

The MIT-06I PoE Active Splitter works with Power Injector, as a data/power splitter and DC to DC converter. Compliant with IEEE 802.3af and CISCO inline-power injector, All materials meet RoHS standard.

Specification

1 INPUT SPECIFICATIONS:

1. INPUT :

- 1.1 Input Voltage: DC-40V to DC-60V NORMAL= -48V
- 1.2 Under Voltage Lockout: DC -30V

2 OUTPUT SPECIFICATIONS:

- 2.1 Output Voltage & Current:

Electrical Characteristics:

MODEL	MIT-06I-0805	MIT-06I-0809	MIT-06I-0812	MIT-06I-1205	MIT-06I-1212	MIT-06I-1224
OUTPUT	+5V	+9V	+12V	+5V	+12V	+24V
Max. load	1.6A	0.88A	0.67A	2.4A	1.0A	0.5A
Power	8W Max	8W Max	8W Max	12W Max	12W Max	12W Max
Min. Load	0A	0A	0A	0A	0A	0A
Load reg. %	5%	5%	5%	5%	5%	5%
Line reg. %	1%	1%	1%	1%	1%	1%
Ripple %	2%	2%	2%	2%	2%	2%
Noise %	5%	5%	5%	5%	5%	5%

TOTAL POWER :8 ~ 12W

- 4.2 Operation frequency is 100KHZ (min)
- 4.3 Isolation Voltage : 1500Vrms
- 4.4 Isolation Resistance : 100M ohms (min)
- 4.5 Input Set class Resistance : 25K ohms

5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -25 - +60 Degree
- 5.2 Storage Temperature: -40 - +85 Degree
- 5.3 Operation Humidity: 5% - 90% RH
- 5.4 Cooling: Free air cooling

MIT-06 non-802.3af splitter

MODEL	MIT-06-03	MIT-06-05	MIT-06-12
OUTPUT VOLTAGE	3.3V	5V	12V
OUTPUT CURRENT	2.4A	2.4A	1A

- MIT-06T non-802.3af splitter with surge/lightning protection on signal pairs
- MIT-06I 802.3af compliant splitter
- MIT-06IT 802.3af compliant splitter with surge/lightning protection on signal pairs

6. RJ-45 CONNECTOR & PINOUT

RJ -45 Output (Data Only)

Pin	Symbol	Description
1	Rx+	Data Receive
2	Rx-	Data Receive
3	Tx+	Data Transmit
4	NC	Not Connected
5	NC	Not Connected
6	Tx-	Data Transmit
7	NC	Not Connected
8	NC	Not Connected

NOTE:

1. pins 7 and 8(-Vdc) should not be shorted to ground.
2. power input could be on 1,2,3,6 (Cisco) or 4,5,7,8 (802.3af)
- 6.2 DC Power Plug diameter: 5.5Φ/2.1Φ, length: 12+/-0.5mm, 180 degree angle. Polarity : inside(+), outside (-)

7. MECHANICAL AND DIMENSION

- 7.1 Plastic Case Material: ABS
- 7.2 Plastic Case Finish: Texture
- 7.3 Plastic Case Color: Gray
- 7.4 Plastic Case Dimension: 85mm (d) * 76mm (w) * 36mm (h)
- 7.5 Weight: 110g
- 7.6 CAT-5 UTP Cable Length: 30cm, RJ-45 plug, Gray color.
- 7.7 Power Cable Length: 30cm, DC power plug, Gray color

- 8. E M I Meet FCC Class B standard
- Meet NE55022 Class B standard

10. SPEC. of SURGE/LIGHTNING PROTECTION (OPTION)

Operating Voltage Data 5V	Data 5V
Clamping Voltage	Data 11V
Peak Pulse Current	36A (10/1000uS)
Pin Protected	4 pin protected (1/2, 3/6)
Protection Mode	Common mode
Max. Shut Capacitance	< 5 pF
Data Rate	100 Mbps
Response Time	< 1 nS
Operating Temperature	-20°C~+60°C
Storage Temperature	-40°C~+80°C
Operating Humidify	0~95% non condensing

Typical at 25°C, nominal line and 75% load, unless otherwise Specified