



MSTronic Co., Ltd.

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SPECIFICATION

MIT-33G-56BNN

Gigabit PoE Injector

1. INPUT :

- 1.1 Input Voltage: AC 100V ~ 240V @120V/230V
- 1.2 Input Frequency : 47 ~ 63hz
- 1.3 Input Current: 1.03A at 120Vac @F.L
0.63A at 230Vac
- 1.4 Inrush current: 25A Max at 120Vac & 50A Max at 230Vac

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+56V
Max. load	1.07A
Power	60W Max
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	2%

TOTAL POWER : 60 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 : 81% min. at AC 120V ~ 230V 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 ~ 63V

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

4.4 Input with Fuse Protection

5. EMC : Meet FCC Class B EN55032 Class B

5.1 SAFETY STANDARD : Meet UL1950, CSA 22.2 &TUV EN60950-1



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7. RJ45 Connected and pin out: @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-

8. Indicator:

LED (GREEN) indicates POE Output OK

SPEC. of SURGE/LIGHTNING PROTECTION (material Spec)



Document: W0301046, Rev: C

WS05-4RUL

Transient Voltage Suppressor

Features

- Solid-state silicon-avalanche technology
- 400Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- Low operating and clamping voltage
- Up to four I/O Lines of Protection
- Ultra low capacitance:1.5pF
- Low Leakage
- Low operating voltage:5V



IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 20A (8/20 μs)



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Electrical Characteristics

WS05-4RUL						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}	Pin5 to pin2			5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$ Pin 5 to pin2	6.0			V
Reverse Leakage Current	I_R	$V_{RWM}=5V, T=25^{\circ}C$ Pin 5 to pin2			5	μA
Forward Voltage	V_F	$I_T=10mA$			1.2	
Clamping Voltage	V_C	$I_{PP}=5A, t_p=8/20\mu s$ I/O pin to GND		16.5	19	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$ I/O pin to GND		3		pF
		$V_R = 0V, f = 1MHz$ Between I/O pins		1.5		pF