

FM-POE-LOW

Fluidmesh Low Voltage POE Injector

The Fluidmesh FM-POE-LOW allows to power a Fluidmesh radio using a low voltage source. It is fully compatible with VOLO, and ENDO series and can work with an input voltage of 9-36VDC.

It is an ideal solution when powering a system using batteries, solar panels, or a wind turbine.



SPECIFICATION

INPUT

- Input Voltage: 9Vdc to 36Vdc
- Input Current: 2.05A at 12Vdc (2.86A at 9Vdc)
1.0A at 24Vdc (0.67A at 36Vdc)

OUTPUT

- Output Voltage & Current:

OUTPUT	+24V
Max. load	0.8A
Power	19.2W
Min. Load	0.01A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER : 19.2W

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

EFFICIENCY

75% min at Full Load , 12Vdc & 24Vdc Input Voltage

PROTECTION

- Short Circuit Protection
 - Output Short GND Terminal will not damage the Power Supply and will
 - Auto-Reset.
- Input with Fuse Protection.
- Safety Standard: meet UL1950, CSA 22.2 & TUV EN60950.
- EMC: meet FCC Class B , EN55022 Class B ,
- Over Current: 120% ~ 160% @12Vdc Input F.L

CONNECTION

RJ-45 Input (Data & Power)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive	RX+	Data Receive
2	RX-	Data Receive	RX-	Data Receive
3	TX+	Data Transmit	TX+	Data Transmit
4	NC	Not Connector	-Vdc	Feeding power(+)
5	NC	Not Connector	-Vdc	Feeding power(+)
6	TX-	Data Transmit	TX-	Data Transmit
7	NC	Not Connector	(-Vdc)_return +	Feeding power(-)
8	NC	Not Connector	(-Vdc)_return +	Feeding power(-)

Note: 1. DC output GND and Vin+/- should not be shorted to ground(FG).

GENERAL DESCRIPTION

- Operation Temperature: -25° C - +50° C
- Storage Temperature: -40° C - +85° C
- Operation Humidity: 5% - 90%
- Cooling: Free air cooling
- SIZE: 85X78X36 mm - DIN Rail Mountable

INDICATION

- Output OK the LED will be "ON"

SPEC. of SURGE/LIGHTNING PROTECTION

	Signal
Operating Voltage	Data 5V
Clamping Voltage	Data 16.5V (@I PP =5A, t p =8/20µs, I/O pin to GND)
Peak Pulse Current	20A (tp=8/20µs)
Pin Protected	4 pin protected (signal pairs)
Max. Shut Capacitance	<3pF (VR = 0V, f = 1MHz, I/O pin to GND) < 1.5 pF (VR = 0V, f = 1MHz, Between I/O pins)
IEC COMPATIBILITY (EN61000-4)	IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC61000-4-4 (EFT) 40A (5/50ns) IEC61000-4-5 (Lightning) 20A (8/20µs)

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