FM-POE-LOW-48

Fluidmesh Low Voltage POE Injector

Fluidmesh is now part of Cisco.

The Fluidmesh FM-POE-LOW-48 allows to power a Fluidmesh radio using a low voltage source. It is fully compatible with Volo, Mito, and Endo Series radios 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.
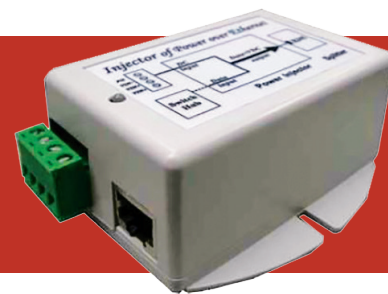
FEATURES

- Input Voltage: 9Vdc to 36Vdc
- IEEE 802.3af compliant or Passive PoE Output
- Dual Inputs for connecting 2 Power Sources
- Integrated 10/100/1000MB PoE Inserter
- Power up to 17W
- Low Self Power Consumption
- Short Circuit, Over Current and Reverse/Over Voltage Protect
- High Temperature Operation
- Compact Size - Maximize Available Space

APPLICATIONS

- 12V / 24V / 48V Battery Systems, Vehicle Applications
- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems

DC Input Connectors

FG ◯ **Frame Ground**
Do not connect with VIN-

VIN- ◯ **DC (-) Voltage In**

VIN+ ◯ **DC (+) Voltage In**
Isolated Input#1

VIN+ ◯ **DC (+) Voltage In**
Isolated Input#2

DEVICE PINOUTS

	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-

SPECIFICATIONS

	FM-POE-LOW-48
DC Input Voltage	9VDC – 36VDC
DC Input Connector	Removeable Screw Type Compression Wire Terminal (12 AWG Max)
DC Output Voltage	48V (802.3af)
Data in & Data/POE Output Connector	RJ45 (Shielded)
Output Current (max)	0.35A
Output Power (max	17W
Self Consumption Power	1W
Efficiency (min)	75%
Line Regulation	1%
Load Regulation	5%
Ripple	1%
Noise	1%
EMC Standards	FCC Class B EN55022 Class B
Safety Standards	UL1950, CSA 22.2 &TUV EN60950
Operating Temp	-30 to +60°C (-22 to +140°F)
Operating Humidity	5% - 90%
Storage Temp	-40 to +80°C (-40 to +176°F)
Dimensions (LxWxH)	85 x 76 x 36mm (3.4 x 3 x 1.4")
Weight	134g (4.7oz)

Fluidmesh Networks products are installed locally by professional System Integrators and are available worldwide through a network of Authorized Dealers. For additional information please call +1.617.209.6080 or visit us at fluidmesh.com

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