3onedata
Make network communication more reliable

FL45-E1000-POE

Surge Protection Devices For Power Over Ethernet

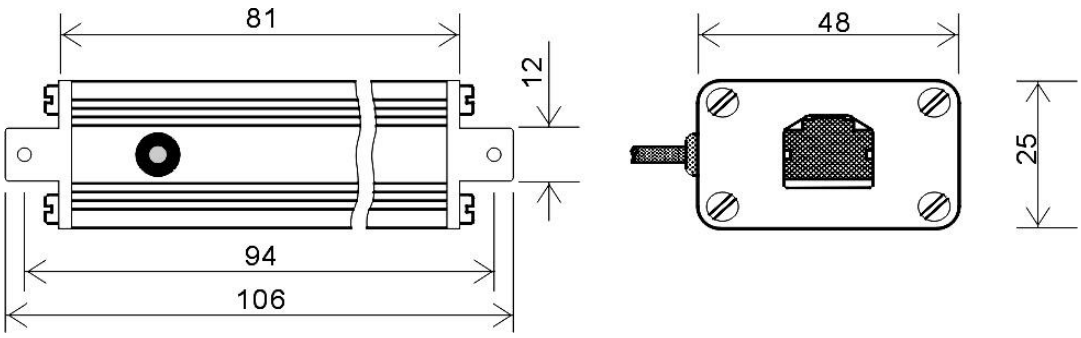
- These surge protectors are used to protect expensive equipment from damage caused by electrical surges. The ultra-sharp clamping response permanently eliminates transients from your POE applications. They should be mounted as close to the protected equipment.
- The all metal case aluminum enclosure and shielded RJ45 connector provide for good EMI noise suppression.
- There is an integral ground wire provided which can be connected to a ground for those systems that require a single point ground connection.

Introduction

The POE Surge Protectors are rugged and effective surge protectors for ethernet based systems. They provide a high level of protection against power surges caused by lightning and other causes.

Dimension

Unit:mm



Specification

Nominal operating voltage / Un	Data: 3V PoE: 48V
Max operating continuous voltage / Uc	Data: 5V PoE: 56V
Rated load current / Iload	1000mA DC
POE Standard	IEEE802.3af, 802.3at
Impulse withstand voltage (10/700μs @40Ω or 1.2/50- 8/20μs @42Ω)	1KV Differential Mode 6KV Common Mode
Voltage protection level / Up	Data: ≤10V PoE: ≤600V
Data transmission rate	10/100/1000Mbps
Insert loss / IL	≤0.5dB

Response Time	<10ns
Max Shunt Capacitance	<10pF
Series resistor / R	0Ω
Protective pins	All Pins 1/2, 3/6, 4/5, 7/8
Protection Mode	Differential & Common Mode X-X,X-G
I/O Port	RJ45(with Shield)
Case material	Aluminium
Inflammability class	UL94 V0
Degree of protection	IP20
Temperature Range	-20 ℃ to +60 ℃
Operating Humidity	5% to 95% noncondensing
Size (L x W x H)	83x25x25mm
Weight	110g
Criterion standard	GB/T 18802.21-2004、IEC61643.21-2012、EN61643.21-2013

Applications

- POE Routers, Switch
- Wireless Access Point, Wireless Bridge
- VOIP Phone System
- IP Camera System
- Suitable for network equipment are not allowed to restart, reset, interrupt communication
- Especially suitable for protecting floating ground's POE network communications equipment

Maintenance methods

- The SPD is installed between the outline and the equipment by series method, and keep the PE line connected with the ground reliably (Equipment Reference Ground).
- The SPD don not need maintain normally, If the SPD run unconventionally, Please measure the resistance between input and output ,it should be less than 0.5Ω,and the resistance between the core and the ground should be more than 10MΩ. If the result is not accord with upon data, it means the SPD is disabled, Please change at once.
- The PE cable should be short, thick and straight ASAP.

Ordering Information

Model	Gigabit PoE Port (Input)	Gigabit PoE Port (Output)	Power Supply
FL45-E1000-POE	1	1	No

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