

Gigabit Ethernet POE Surge Protector



GPOE-SP-24 Specs and Use Guide

GPOE-SP-24 is a 24-port Gigabit Ethernet POE surge protector designed to protect all 8 lines used in standard CAT6 cable. This product is compatible with 100/1000Base-T networks and 48V Power Over Ethernet systems. The Standard 802.11af/at allows the methods of implementing POE. It protects data pairs (pins 1/2 and pins 3/6) and power over the unused pairs (pins 4/5 and pins 7/8). GPOE-SP-24 protection is provided on all 8 Ethernet pins (6.8V clamping on Data pins 1, 2, 3, 6 and 53V clamping on POE pins 4, 5, 7, 8). Network connections are made via standard female RJ45 connectors. Grounding is accomplished via a ground wire. GPOE-SP series family surge protectors include 1, 8, 16 and 24 Gigabit Ethernet ports at your choice.

Feature

- Cat6 and POE RJ45 network data protector
- Aluminum chassis, easy installation and replacement (DIN rail option)
- Built-in temperature control breaking technology and multiple protection technology
- Strong protection ability and high reliability
- High discharge capability and fast response time

Installation

- Run the grounding line as short as possible.
- Loops or parallel runs of protected and unprotected lines must be avoided.
- RJ45 IN and OUT. OUT RJ45 ports are protected. Observe the relevant DIN VDE regulations.

Specifications

Product Models and Ordering Part Numbers	GPOE-SP-1	GPOE-SP-8	GPOE-SP-16	GPOE-SP-24
Ethernet Ports	1 port	8 ports	16 ports	24 ports
In accordance with	IEC 61643-21, EN61643-21			
Normal Voltage (VDC) :	48VDC			
Max. Continuous Operating Voltage (VDC) :	68VDC (80VDC should be customized.)	57VDC	57VDC	57VDC
Normal Surge Discharge (8/20us) KA : Current (Line to Line)	2.5	2.5		
Max discharge current (8/20us) KA : Current (Line to Ground)	10	10		
Lighting impulse current 10/350us)	1	1		
Normal Current	800mA	0.15A		
Voltage protection Level (V) @1kV/us :UP @5kV 10/700/us :UP	<45V(LL); <600V(LG) <20V	≤45V (Line-line) , ≤600V (Line-PG)		
Insertion loss	≤0.1dB	≤0.1dB	≤0.1dB	≤0.1dB
Response time	≤1ns	≤1ns	≤1ns	≤1ns
Data Rate	100/1000Mbps			
Type of Connectors In/Out	RJ45 (Shielded RJ45) Female / Female			
Ethernet Cable	CAT6			
Connection Type	Series	Series	Series	Series
OUT RJ45 Port Pins Protected	Data: 1, 2, 3, 6 POE: 4, 5, 7, 8			
Mounting	Inline / DIN rail	Flange	Flange	Flange
Material	Aluminum	Metal	Metal	Aluminum
Dimension (MM)	94.5Wx25Lx25H	490Wx125Lx45H	490Wx125Lx45H	490Wx125Lx45H
Weight (KG)	0.09/(With Din Rail: 0.125)	1.8	2.01	1.5
Operating temperature range	-40°C to +85°C			
Environmental protection	IP20	IP20	IP20	IP20



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