SP-POE-01

Power Over Ethernet 1-Port Surge Protector

The SP-POE-01 is a single port, Ethernet surge protector designed to protect all 8 lines used in a standard CAT5e cable. The product is compatible with 10/100Base-T(X) networks and 48V Power-over-Ethernet systems. The Standard IEEE802.3at/af allows the methods of implementing PoE: The SP-POE-01 applies data to the pairs (pins 1/2 and pins 3/6) and power to the unused pairs (pins 4/5 and pins 7/8). The SP-POE-01 offered 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.

Features

- 10/100Mbps data rate
- Compatible with 48V power over Ethernet systems
- 6.8V Data / 53V PoE clamping voltage

- 5KA surge discharge current
- CAT5 and CAT5e compatible. All 8 pins protected.
- Integral mounting feet and separate ground wire (SP-POE-16, SP-POE-24)
- Shielded RJ45 jacks and metal enclosure for EMI noise suppression

Specifications

Voltage	Data 5V ; PoE 48V
Clamping Voltage	6.8V Data (Pins 1,2,3,6) 53V PoE (Pins 4,5,7,8)
Max Surge Discharge Current	5KA (8/20uS)
Peak Pulse Current	100A (10/1000uS)
Pins Protected	Data : 1, 2, 3, 6 PoE : 4, 5, 7, 8
Insulation Lost	< 0.5dB (10Mbps)
Data Rate	10/100 Mbps

Response Time	line/line <1 ns; line/ground < 100ns
Operating Temperature	-20 ~ +75°C
Storage Temperature	-40 ~ +85°C
Operating Humidity	0% ~ 95% non condensing
Dimensions (D x W x H)	38 x 106 x 26 mm (1-port)
Weight	75 g (1-port)
Certification	IEC 61643-21:2000

Ordering Information

Model Name	Description
SP-POE-01	1-port RJ45 10/100Base-TX PoE Ethernet Surge Protector (Data: 1,2,3,6. PoE: 4,5,7,8)

SP – POE – □□

Example: SP – POE – 01

SP-GPOE-01/SP-GPOE-24

Single Port or 24 ports Gigabit Ethernet PoE Surge Protector

The SP-GPOE-01 is a single port, Gigabit Ethernet PoE surge protector designed to protect all 8 lines used in a standard CAT5e cable. The product is compatible with 1000Base-T networks and 48V Power-over-Ethernet systems. The Standard IEEE802.3at/af allows the methods of implementing PoE: The SP-GPOE-01 applies data and PoE power to the pairs (pins 1/2 , 3/6, 4/5, 7/8) .The SP-GPOE-01 offers protection is provided on all 8 Ethernet pins (63V clamping on data and PoE pins 1, 2, 3, 4, 5, 6, 7, 8). Network connections are made via standard female RJ45 connectors. Grounding is accomplished via a ground wire.

Features

- 1000Mbps data rate
- Compatible with 48V power over Ethernet systems
- 63V PoE clamping voltage

- 1.5KA surge discharge current
- CAT5 and CAT5e compatible. All 8 pins protected.
- Integral mounting feet and separate ground wire
- Shielded RJ45 jacks and metal enclosure for EMI noise suppression

Specifications

Operating Voltage	UN	63V
Max. continuous operating voltage peak current line to line (8/20us)	Imax	1.5KA
Max. continuous operating voltage peak current line to ground (8/20us)	Imax	1.5KA
Voltage protection level (line to line)	UP	≤ 120V
Voltage protection level (line to ground)	UP	≤ 120V
Insertion Loss		< 0.5dB
Data rate		10/100/1000Mbps

NM Surge response time	≤ 1ns
Connector	RJ45
Data lines protected	1-8
Operating Temperature	-40 ~ 80°C
Dimensions (D x W x H)	38 x 106 x 26mm (1-port) 73 x 183 x 44mm (24-port)
Weight	75g (1-port), 1.4kg (24-port)
Certification	IEC 61643-21:2000

IN — Network line — SP-GPOE-01 — OUT — Patch cable — Network equipment — Ground

Ordering Information

Model Name	Description
SP-GPOE-01	Single Port, 1000Base-T GE PoE Surge Protector (Data & PoE: 1, 2, 3, 4, 5, 6, 7, 8)
SP-GPOE-24	24-port RJ45 10/100/1000Base-TX PoE Etherent Surge Protector (Data & PoE: 1, 2, 3, 4, 5, 6, 7, 8)

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.