



SP-POE-01A

Power Over Ethernet 1-Port Surge Protector

The SP-POE-01A 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 802.11af allows the methods of implementing PoE: The SP-POE-01A applies data to the pairs (pins 1/2 and pins 3/6) and power to the unused pairs (pins 1/2 and pins 3/6). The SP-POE-01A offered protection is provided on all 8 Ethernet pins (53V clamping on Data pins 1,2,3,6 and 53V clamping on POE pins 1,2,3,6). 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
- 53V Data / PoE clamping voltage
- 5KA surge discharge current
- CAT5 and CAT5e compatible. All 8 pins protected.
- Shielded RJ45 jacks and metal enclosure for EMI noise suppression

Specifications

Voltage	Data 5V ; PoE 48V	Response Time	line/line <1 ns; line/ground < 100ns
Clamping Voltage	53V Data (Pins 1,2,3,6) 53V PoE (Pins 1,2,3,6)	Operating Temperature	-20 ~ +75°C
Max Surge Discharge Current	5KA (8/20uS)	Storage Temperature	-40 ~ +85°C
Peak Pulse Current	100A (10/1000uS)	Operating Humidity	0% ~ 95% non condensing
Pins Protected	Data : 1, 2, 3, 6 PoE : 1, 2, 3, 6	Dimensions (D x W x H)	38 x 106 x 26 mm (1-port)
Insulation Lost	< 0.5dB (10Mbps)	Weight	75 g (1-port)
Data Rate	10/100 Mbps	Certification	IEC 61643-21:2000

Ordering Information

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

SP - POE - □□□
Example: SP - POE - 01A



SP-GPOE-01/SP-GPOE-24

Single Port or 24 ports Gigabit Ethernet PoE Surge Protector

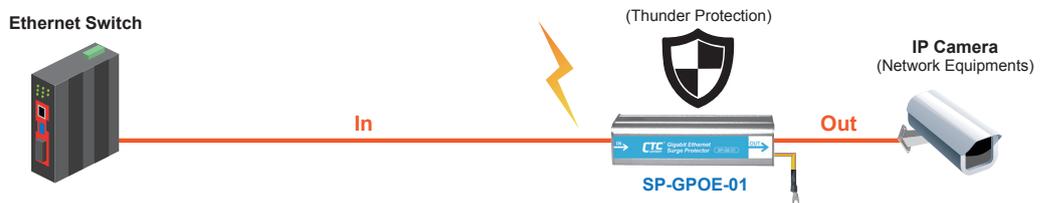
The SP-GPOE-01 is a single port, Gigabit Ethernet PoE surge protector designed to protect all 8 lines used in a standard CAT5e cable. The product is compatible with 1000Base-T networks and 48V Power-over-Ethernet systems. The Standard IEEE802.3at/af allows the methods of implementing PoE: The SP-GPOE-01 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	NM Surge response time	≤ 1ns
Max. continuous operating voltage peak current line to line (8/20us)	I _{max}	1.5KA	Connector	RJ45
Max. continuous operating voltage peak current line to ground (8/20us)	I _{max}	1.5KA	Data lines protected	1-8
Voltage protection level (line to line)	UP	≤ 120V	Operating Temperature	-40 ~ 80°C
Voltage protection level (line to ground)	UP	≤ 120V	Dimensions (D x W x H)	38 x 106 x 26mm (1-port) 73 x 183 x 44mm (24-port)
Insertion Loss	< 0.5dB		Weight	75g (1-port), 1.4kg (24-port)
Data rate	10/100/1000Mbps		Certification	IEC 61643-21:2000



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 Ethernet 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.

SP-GE-01

Gigabit Ethernet 1-Port Surge Protector



The SP-GE-01 Series is designed to work on Category 5e Gigabit Ethernet (GE) transmission lines as well as Category 6 applications. They are ideal to protect expensive equipment against surges and transients entering a building on exposed transmission lines. Available in both Single unit and Rack mountable surge protectors with female to female RJ-45 connectors.

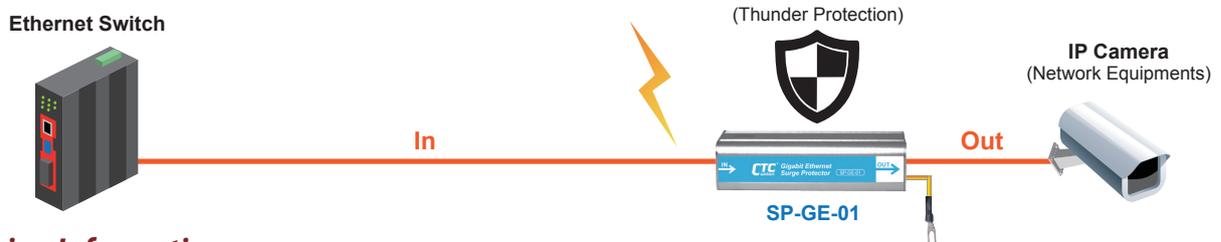
Features

- Ethernet 10/100/1000Base-T Data line protection
- Exceeds CAT 5 & 6 Transmission Values
- Fast energy absorption when over-voltage occurs
- Low series resistance and minimal capacitance values to preserve the data information

Specifications

Operating Voltage	Un 5V
Max. continuous operating voltage	Uc 6V
Peak Current Normal Mode (line to ground, 8 /20uS)	In 2.5KA
Peak Current Common Mode (line to line, 8/20uS)	In 300A
Voltage protection level (line to ground,10/700uS)	Up <=500V
Voltage protection level (line to line,10/700uS)	Up <=30V

NM Surge Response Time (ns)	tA <1ns
Data rate	10/100/1000Mbps
Bandwidth / Insertion Loss	fG 250Mhz ; Ae < 0.5dB
Connector / Data Lines Protected	RJ45 ; 8
Operating Temperature	-40 ~ 80°C degree
Dimensions	38 x 106 x 26 mm (1-port)
Weight	75g (1-port)
Certification	IEC 61644-1



Ordering Information

Model Name	Description
SP-GE-01	1-port RJ45 10/100/1000Base-T Ethernet Surge Protector (pin 1,2,3,4,5,6,7,8)

SP - GE - □□
Example: SP - GE - 01