

## Ethernet Surge Protector

### Features

- 10/100/1000Mb Data Rate (24 or 48V POE Model)
- 7.5V Data Clamping Voltage
- CAT5 and CAT5e Compatible. All 8 pins protected.
- Shielded jacks and full metal housing
- Complies with IEC 61643-21 Standard
- Integral Mounting Feet and Ground Wire



### Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Industrial Control Systems

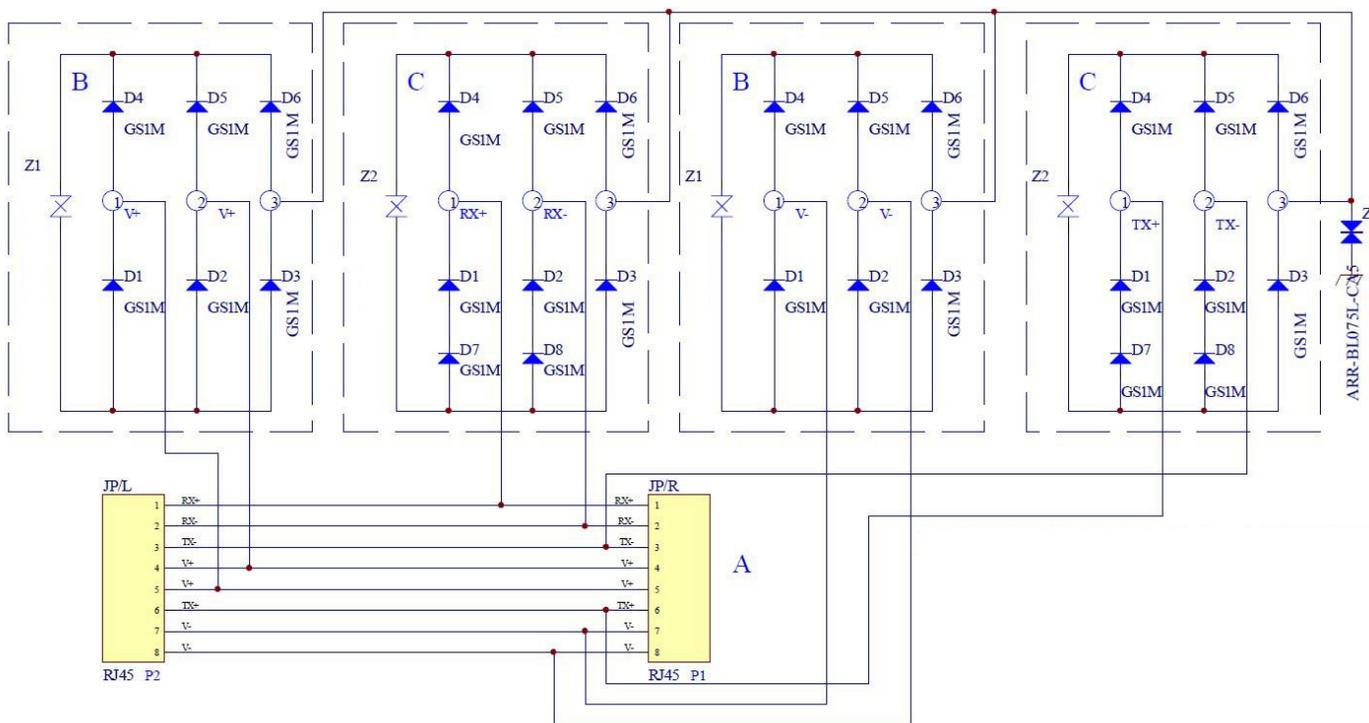
### Description

The ESP-POE are a low cost Ethernet surge protector to help protect sensitive equipment from surges caused by lightning and grid power fluctuations. They have a full metal body for improved EMI suppression and have integral mounting feet and separate ground wire. They are designed for indoor or outdoor use inside a weatherproof enclosure. The ESP-1000-POE is compatible with 10/100/1000M POE systems up to 57V. The ESP-1000-POE24 is compatible with 10/100/1000M POE systems up to 30V. The ESP-100-POE24 is for 10/100M passive POE systems up to 30V. Protection is provided on all 8 CAT5 wires.

### Specifications

	TP-ESP-1000-POE	TP-ESP-1000-POE24	TP-ESP-100-POE24
<b>Operating Voltage</b>	Data 5V ; POE 48V	Data 5V ; POE 24V	Data 5V ; POE 24V
<b>Clamping Voltage</b>	70V POE (All 8 Pins)	40V POE (All 8 Pins)	7.5V Data (Pins 1,2,3,6) 40V POE (Pins 4,5,7,8)
<b>Max Surge Discharge Current</b>	5KA (8/20us)	5KA (8/20us)	5KA (8/20us)
<b>Peak Pulse Current</b>	100A (10/1000us)	100A (10/1000us)	100A (10/1000us)
<b>Protection Mode</b>	Differential & Common Mode	Differential & Common Mode	Differential & Common Mode
<b>Insulation Resistance</b>	>1000 MOhm	>1000 MOhm	>1000 MOhm
<b>Shunt Capacitance</b>	< 25 pF	< 50 pF	< 25 pF
<b>Data Rate</b>	10/100/1000 Mbps	10/100/1000 Mbps	10/100 Mbps
<b>Response Time</b>	<5 ns	<5 ns	<5 ns
<b>Operating Temperature</b>	-40 to +85°C	-40 to +85°C	-40 to +85°C
<b>Storage Temperature</b>	-40 to +125°C	-40 to +125°C	-40 to +125°C
<b>Operating Humidity</b>	0% to 95% non condensing	0% to 95% non condensing	0% to 95% non condensing
<b>Size (L x W x H)</b>	4 x 1 x 1" (102 x 25 x 25mm)	4 x 1 x 1" (102 x 25 x 25mm)	3.2 x 1 x 1" (82 x 25 x 25mm)
<b>Weight</b>	3.1oz (88g)	3.1oz (88g)	2.4oz (68g)
<b>Ground Wire</b>	14 AWG, 10" (26cm) long	14 AWG, 10" (26cm) long	14 AWG, 10" (26cm) long
<b>Connectors</b>	RJ45 Shielded Jacks	RJ45 Shielded Jacks	RJ45 Shielded Jacks
<b>IEC Standard</b>	61000-4-5, 61643-21	61000-4-5, 61643-21	61000-4-5, 61643-21
<b>IEEE/ ANSI Standard</b>	C62.45	C62.45	C62.45
<b>Warranty</b>	2 Years		

Schematic



System Ordering:

- TP-ESP-1000-POE**
- TP-ESP-1000-POE24**
- TP-ESP-100-POE24**

- 10/100/1000M Network Lightning/ Surge Suppressor 7.5V/70V Clamping for 48V POE
- 10/100/1000M Network Lightning/ Surge Suppressor 7.5V/40V Clamping for 24V POE
- 10/100M Network Lightning/ Surge Suppressor 7.5V/40V Clamping for 24V POE

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