TYCON Power Systems

Ethernet Surge Protector

Features

- **100MB Data Rate**
- **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**

Applications

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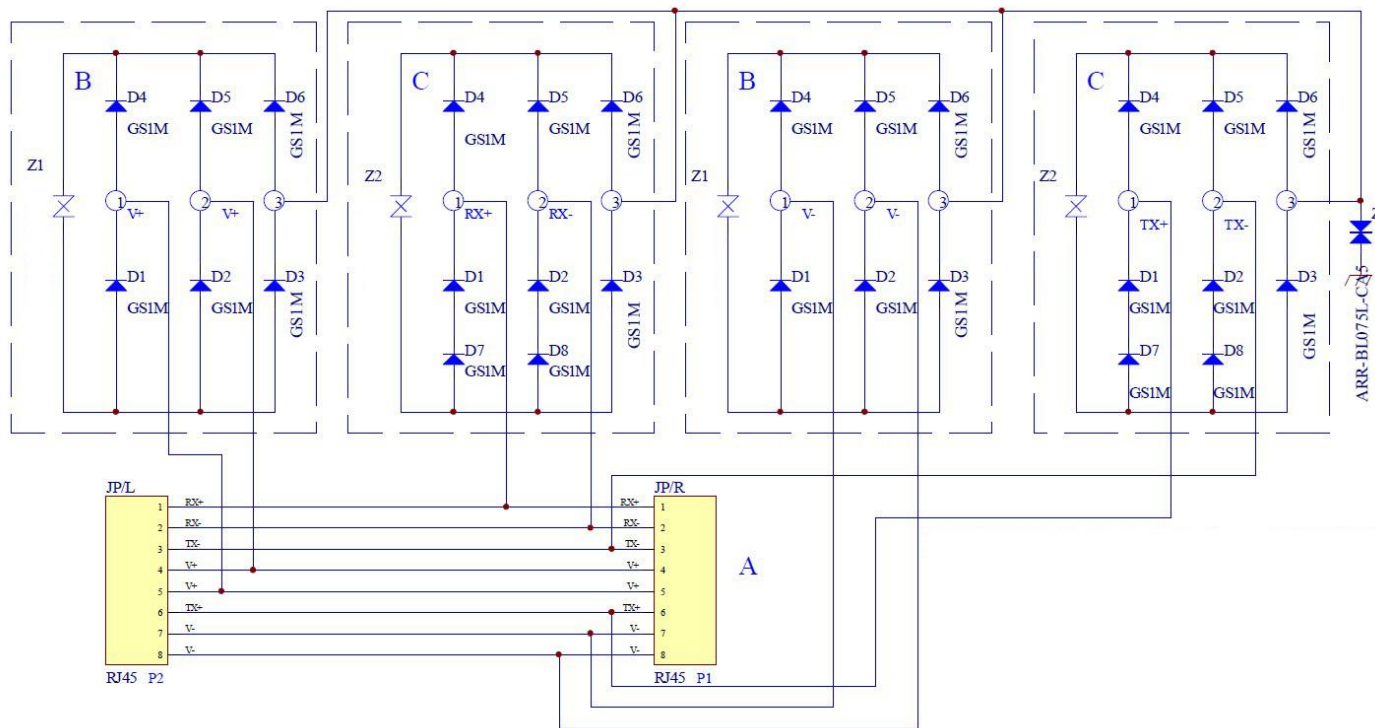- **Industrial Control Systems**

Description

The ESP-100-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-100-POE is compatible with POE systems up to 48V. The ESP-100-POE24 is for POE systems up to 24V. Protection is provided on all 8 CAT5 wires.

Specifications

	TP-ESP-100-POE	TP-ESP-100-POE24
Operating Voltage	Data 5V ; POE 48V	Data 5V ; POE 24V
Clamping Voltage	7.5V Data (Pins 1,2,3,6) 70V POE (Pins 4,5,7,8)	7.5V Data (Pins 1,2,3,6) 46V POE (Pins 4,5,7,8)
Max Surge Discharge Current	10KA (8/20us)	5KA (8/20us)
Peak Pulse Current	100A (10/1000us)	100A (10/1000us)
Protection Mode	Differential & Common Mode	Differential & Common Mode
Insulation Resistance	>1000 MOhm	>1000 MOhm
Shunt Capacitance	< 25 pF	< 25 pF
Data Rate	100 Mbps	100 Mbps
Response Time	<5 ns	<5 ns
Operating Temperature	-20 to +60°C	-20 to +60°C
Storage Temperature	-40 to +80°C	-40 to +80°C
Operating Humidity	0% to 95% non condensing	0% to 95% non condensing
Size (L x W x H)	3.2 x 1 x 1" (82 x 25 x 25mm)	3.2 x 1 x 1" (82 x 25 x 25mm)
Weight	2.4oz (68g)	2.4oz (68g)
Ground Wire	16 AWG, 10" (26cm) long	16 AWG, 10" (26cm) long
Connectors	RJ45 Shielded Jacks	RJ45 Shielded Jacks
IEC Standard	61000-4-5, 61643-21	61000-4-5, 61643-21
IEEE/ ANSI Standard	C62.45	C62.45

Schematic

Notes:
- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Surge Protectors carry a 2 year limited warranty

System Ordering:

TP-ESP-100-POE   100MB Network Lightning/ Surge Suppressor 7.5V/70V Clamping
TP-ESP-100-POE24   100MB Network Lightning/ Surge Suppressor 7.5V/46V Clamping

For further information contact:

Tyconpower.com

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