Pacific Wireless
a unit of *LAIRD TECHNOLOGIES*®

RoHS compliant

Network Lightning/Surge Protector
7.5V/70V Clamp Voltage

Features

- **100Mbps Data Rate**
- **Compatible with 48V Power Over Ethernet Systems**
- **7.5V Data / 70V POE Clamping Voltage**
- **10KA 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**
- **Complies with IEC 61643-21 Standard**
- **Compact and rugged design**

ESP-100-POE
Surge Protector

Applications

- **Routers, access points and bridges**
- **Remote networking equipment**
- **SOHO Equipment**
- **Industrial Control Systems**

- **Wimax Systems**
- **Point of Sale Systems**
- **IP Phone systems**
- **IP Camera Systems**

Description

The ESP Series of Surge Protectors are rugged and effective surge protectors for Ethernet based systems. They provide a high level of protection against power surges caused by lightning and other causes. These surge protectors are used to protect expensive equipment from damage caused by electrical surges. They should be mounted as close to the protected equipment as possible. The all metal cast aluminum enclosure and shielded RJ45 connectors provide for good EMI noise suppression. The integral mounting feet can be screwed to a metal chassis to provide proper grounding or as an alternative, there is an integral ground wire provided which can be connected to a ground for those systems that require a single point ground connection. They are designed to be used indoors or outdoors, if inside a waterproof enclosure. The ESP series are compatible with 100Mbps data and 48V POE systems. Protection is provided on all 8 Ethernet pins (7.5V clamping on Data pins 1,2,3,6 and 70V clamping on POE pins 4,5,7,8).

Specifications

Operating Voltage	Data 5V ; POE 48V
Clamping Voltage	7.5V Data (Pins 1,2,3,6) 70V POE (Pins 4,5,7,8)
Max Surge Discharge Current	10KA (8/20uS)
Peak Pulse Current	100A (10/1000uS)
Pins Protected	All 8 Pins
Protection Mode	Differential & Common Mode L-L, L-G
Insulation Resistance	>1000 M Ohm
Max Shunt Capacitance	<25pF
Data Rate	100 Mbps
Response Time	<5 nS
Operating Temperature	-20 to +60 C
Storage Temperature	-20 to +80 C
Operating Humidity	0% to 95% non condensing
Size (L x W x H)	2.7" x 1" x 1" (68 x 25.4 x 25.4mm)
Size (overall)	3.2" x 1" x 1" (82 x 25.4 x 25.4mm)
Weight	2.4oz (68 g)
Ground Wire	16 AWG , 10" (26cm) long
Connectors	RJ45 Shielded Jacks

Compliance:	
IEC	61000-4-5 , 61643-21
IEEE/ANSI	C62.45

Notes:
- All shipments F.O.B. Bluffdale, UT 84065
- All Surge Protector Products carry a 1 Year Warranty

System Ordering:

        ESP-100-POE   Network Lightning/Surge Protector, LAN/POE 7.5/70V Clamp

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