



7.5V/70V CLAMP VOLTAGE SURGE PROTECTOR

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).

FEATURES

- 100Mbps data rate
- Compatible with 48V power over ethernet systems
- 7.5V Data / 70V POE clamping voltage
- 5KA surge discharge current
- CAT6 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
- 802.3at compliant
- Compact and rugged design

MARKETS

- Routers, access points and bridges
- Wimax systems
- Remote networking equipment
- Point of sale systems
- SOHO equipment
- IP phone systems
- Industrial control systems
- IP camera systems

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ESP-100-POE Network Lightning/Surge Protector

SPECIFICATIONS

PARAMETER	PERFORMANCE
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	5KA (8/20uS)
Peak Pulse Current	100A (10/1000uS)
Pins Protected	All 8 Pins
Protection Mode	Differential & Common Mode L-L, L-G
Insulation Impedance	>1000 M Ω
Max Shunt Capacitance	<25pF
Data Rate	100 Mbps
Response Time	<5 nS
Operating Temperature	40°C to +85°C
Storage Temperature	-40°C to +85°C
Operating Humidity	0% to 95% non condensing
Size (L x W x H)	3.3" x 1" x 1" (83 x 25.4 x 25.4mm)
Size (overall)	3.7" x 1" x 1" (94 x 25.4 x 25.4mm)
Weight	2.8oz (80g)
Ground Wire	14AWG, 10.8" (275 +/-5mm) long
Connectors	RJ45 Shielded Jacks
COMPLIANCE	
Operating Voltage	Data 5V ; POE 48V
Clamping Voltage	7.5V Data (Pins 1,2,3,6) 70V POE (Pins 4,5,7,8)

SYSTEM ORDERING INFORMATION

ESP-100-POE Network lightning/surge protector, LAN/POE 7.5/70V clamp

NOTES

- All shipments F.O.B. Schaumburg, IL 60173

ANT-DS-ESP-100-POE 1116

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