



**Power over Ethernet protector( gigabit)  
RJ45 connector 5kA 48V  
Ethernet Power Supply Arrester**



**Description**

Power over Ethernet protector is designed for POE power supply equipment, are widely used in the areas of wireless coverage, security monitoring etc. to protect the communication equipment's POE port line from the impact of lightning Electromagnetic pulse, lightning electromagnetic pulse, switching overvoltage.

**Features**

- Multi. Protection circuits, Gas-Tube+ TVS technology
- Dual protection in Common module and different module
- TVS array technology, low capacitance
- Multi-Strike Capability

**Application**

Designed for Ethernet device not to be spoiled by lightning over-voltage, induced over-voltage and static discharge.

- CAT6, CAT5e and CAT5 compatible
- 802.3af
- 10/100/1000 Base-T Gigabit Ethernet protection
- LAN, FDDI, CDDI, ATM,WLAN
- PDH, SDH, SPDH
- Industrial control

**Specification**



Model	POE6-48	POE6-48-4	POE6-48-8	POE6-48-24
Lightning projection zone(LPZ)	2			
Standards Compliance	IEC61000, EN60950,GB/T18802.21-2002,TB/T2311-2002			
According to IEC61643	III			
According to DIN VDE6075 Part6(Draft 11.89) A1,A2	D			
Max continuous operating voltage Uc	68VDC			
Nominal working voltage(Un)	48VDC			
Nominal discharge current (8/20μs) In	3KA			
Max discharge current I <sub>max</sub> (8/21μs) I <sub>max</sub>	5KA			
Voltage protection Level @C2(8/20μs) U <sub>p</sub>	≤190V(L-L).≤500V(L-G)			
Voltage protection Level @C3(1kV/μs) U <sub>p</sub>	≤145V(L-L).≤600V(L-G)			
Rated load current I <sub>L</sub>	200mA			
Limiting Voltage(10/700μs)	≤20V			
Cut-off Frequency f <sub>G</sub>	250MHz			
Response time t <sub>A</sub> (L-N/N-PE)	1ns			
Protection line	1/2,3/6,4/5,7/8			
Mounting	Be Installed between protected equipment and signal line			
Adapt Transmission rate	1000Mbps			
Transmission standards	100BaseT/ 1000BaseT/1000Base TX,CAT5/CAT6,POE			
Dimension	104(H)×58(W)×28(L)mm	95(H)×85(W)×48(L)mm	190(H)×85(W)×48(L)mm	482(H)×86(W)×44(L)mm
Interface form	RJ45			
IP code(IEC EN 60529)	IP20			
Error rate	≤10 <sup>-12</sup>			
Material/color	Aluminum/Blue			



Insertion loss	$\leq 0.1\text{dB}$
Working conditions	Temperature: $-40$ to $85^{\circ}\text{C}$ , Relative humidity: $\leq 95\%$

Installation And Wiring Diagram of POE6-48 SPD

