



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



**Specification**

Model	POE5-48-OD	POE6-48-OD
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		5KA



Max discharge current I <sub>max</sub> (8/21μs) I <sub>max</sub>	10KA
Voltage protection Level @C2(8/20μs) Up	≤190V(L-L),≤500V(L-G)
Voltage protection Level @C3(1kV/μs) Up	≤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                      1/2/3/6/4/5/7/8
Mounting	Be Installed between protected equipment and signal line
Adapt Transmission rate	100/1000 Mbps
Transmission standards	100BaseT/ 1000BaseT/1000Base TX,CAT5/CAT6,POE
Dimension	78(H)×172(W)×159(L)m
Interface form	RJ45
IP code(IEC EN 60529)	IP65 (with waterproof duct tape applied on the cables at the entering joints)
Error rate	≤10 <sup>-12</sup>
Material/color	Aluminum/Blue
Insertion loss	≤.0.1dB
Working conditions	Temperature: -40 to 85℃, Relative humidity: ≤95%

### Description

Techwin Industrial POE (Power over Ethernet) SPD (Surge Protection Device) is specially designed for Ethernet switches. The POE switch will not be damaged by lightning overvoltage, induced overvoltage, and electrostatic discharge.

- CAT6, CAT5e and CAT5 compatible
- IEEE 802.3af, 803.1at
- 10/100/1000 Base-T Gigabit Ethernet protection
- LAN, FDDI, CDDI, ATM,WLAN



- PDH, SDH, SPDH
  - Industrial control
  - Industrial POE, With High reliability and high stability
- Surge protection for power supply system, SPD for low-voltage installations and device.CCTV system.

### 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