



Southern Tier
Technologies

Tier 100SPD Series

Tier-1 CAT6 POE

Power-Over-Ethernet Surge Protection



The Southern Tier Technologies Tier 100 CAT6 POE Surge Protective Device (SPD) is designed to work on applications where POE or POE+ surge and data protection is required on a system. The SPD is ideally suited for high-energy surge protection for IP cameras, industrial automation equipment, VOIP systems, ethernet Gigabit network terminals, or computers. Placement is suitable in IEEE 62.41 category B or C locations.

Why Install T1 CAT6 POE SPD?

High speed transmission lines are often a direct path for damaging transient impulses to enter a cabinet or a facility, placing important equipment and data at risk.

For camera systems, protect by placing a Tier-1 CAT6 POE at both the “head-end” and at the equipment end.

Key Specs:

- **Operating Voltage:** 0 - 57VDC
- **Operating Current:** 1A
- **IEEE:** Category 6
- **Clamping Voltage:** 54VDC
- **Surge Capacity:** 10 kA
- **Connection:** Input/Output: RJ45

Features:

- **Protection:** 8-Wire
- **Mount:** DIN
- **Low insertion loss**
- **High Energy:** GDT/SAD Hybrid
- **Warranty:** 5 year

Innovative Solutions for Clean, Reliable Power



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General Technical Specifications

Operating Voltage	0 - 57 VDC
Clamping Voltage	54 VDC
Operating Current	1A
C2 Total nominal Discharge Current (8/20us)	10 kA (8x20 us)
Frequency Range	0 to 500Mhz
Insertion Loss	≤0.1
Transmission Speed	>1000Mbps
SPD Technology	GDT, SAD
Type of Connection IN/OUT	RJ45 (shielded)Female/ Female
Temperature Range	--40°C ~ +85°C (operating current adjusted to 40% @ +85°C)
Transmission standards	10BaseT/ 100BaseT/1000BaseT /1000BaseTX(CAT6)/POE
Meets the requirements	IEEE802.11, IEEE802.3at/af, UL497b, EN50173 Cat 6, IEC61643-21
Pinning	1/2, 3/6, 4/5, 7/8for data;1&2/ 3&6,4&5/ 7&8 for POE
Modes of Protection	All lines (1-8) protected
Mounting	35mm DIN Rail, (L Brackets by special order)
Dimensions (in/mm)	4 x 1.5 x 1.2 (in) /103 x 40 x 30 (mm)
Weight (oz/kg)	5 oz (142 g)
Warranty	5 Years

Installation

1. This product connects in series to the protected device
2. Ensure input cable and output cable are laid separately as to not cause induction/interference.
3. Mount the SPD, the Out Terminal should face the protected device
4. Connect the ground terminal to a ground busbar or the grounded enclosure of the protected device
5. Ensure the circuit is functioning properly

