



# Tier100SPD Series

## Tier-1 HVCP48

Power/Data/Video Surge Protection



Southern Tier Technologies' Tier-1 HVCP48 is a hybrid surge protective device (SPD) featuring DC power, data and video protection in one compact package. Each circuit is capable of handling high-energy events and protecting your most sensitive equipment. The hybrid design features both gas discharge tubes (GDTs), silicon avalanche diodes (SADs) and Auto Resettable Transition Fuse Circuits for maximum energy handling capability and transient response.

### Why Install Tier-1 HVCP48?

Cameras used for traffic control are relied upon and expected to consistently capture and transmit information, even when weather conditions are severe.

A simple way to protect sensitive equipment, is to install a Tier-1 HVCP48. With a three-stage circuit providing high-energy protection for power, data and video, the HVCP48 is the clear choice for any critical location.

### Key Specs:

- **Operating Volt./Current:** Combination Unit
- **Clamping Volt:** Power: 70VDC, Data & Video: 6VDC
- **Surge Capacity:** 20 kA
- **Connection:** 6 Pin

### Features:

- GDT/SAD Protection
- Sneak/fault current protection
- Individual hybrid circuits for power, data, and video
- 5 Year Warranty



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Monitoring for public safety, traffic control or loss prevention is an integral part of our world today. As a result, the equipment used is changing quickly, incorporating intelligent features that rely upon signal-carrying circuits. While these changes become more sophisticated, they also are more susceptible to transients and surges.

The Tier-1 HVCP48 is designed to protect DC power, data, and video in one easily connected product. The product includes three separate circuits, capable of diverting high-energy, transient events that would otherwise disrupt data and damage equipment.

Technical Specifications	
<b>DC Power Protection</b>	
Operating Voltage	48 VDC
Clamping Voltage	70 VDC
Operating Current	1 Amp
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Transition Circuit
<b>High Speed Data Protection (SDIO)</b>	
Clamping Voltage	6V SDIO(+)to SDIO(-), 12V SDIO(+) to Gnd & SD IO(-) to Gnd
Operating Current	750 mA
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Auto Resettable Transition Fuse Circuit
<b>Video Protection</b>	
Clamping Voltage	6V Video(+)to Video(-), 12V Video(+) to Gnd, 12V Video (-) to Gnd
Peak Surge Current	20 kA (8x20 us)
SPD Technology	GDT, SAD, Auto Resettable Transition Fuse Circuit
<b>General Data</b>	
Ground Wire (in/mm)	12 AWG, 12.0"/
Connection	6 Pin Plug Connection
Dimensions (in/mm)	3.3" x 3.3" x 1.35" (83.82 x 83.82 x 34.29 mm)
Material	High Impact Plastic
Weight (oz/kg)	12 oz (0.34 kg)
Operating Temperature	-40
Operating Humidity	0% to 95% Non-condensing
Mounting	Flange mounted, 3.75" mounting hold distance
Warranty	5 Year

Ordering Information
<b>Model: T1-HVCP-48</b>
<b>Optional Accesorry: DIN Clip add -D to end of model #</b>

### Installation Instructions:

#### T1-HVCP-48

- 1) Connect incoming cable assembly to side labelled "Field"
- 2) Connect a second cable assembly from the output of the T1-HVCP-48 6 pin assembly (on side labelled "protected") to the protected device.
- 3) Connect the cable assembly ground wire (10-12 awg) and the AC power gnd of head-end equipment. Keep short & straight as possible.

