

### Surge Protective Device

### Technical Documentation



The **SP-6TVN** is a high quality surge suppression/ filtering device that plugs into a standard duplex receptacle. This uniquely designed product contains twistable outlets for easier installation behind desks and other furniture. SP-6TVN protects your sensitive home or office equipment, including TVs, home theaters, satellite dishes, computers, printers, copiers, and fax machines from damaging power disturbances traveling through your wiring and into your electrical outlets.

### Key Specs

- **Voltage:** 120 VAC
- **Current:** 15 Amp
- **Connection:** Multi-connection

### Features

- 60db Attenuation
- LED Indication
- Rotating outlets
- 39kA Total
- Ground Monitoring

### Certifications

- ANSI/IEEE C62.41 Cat A & B
- UL 1449 Listed

General Specifications			
Operating Voltage	120 VAC, Single Phase		
Operating Voltage Tolerance	+/- 10%		
Operating Frequency Range	47 - 63 Hz		
Peak Surge Current	39,000 Amps (8 x 20µs)		
Maximum Continuous Operating Voltage (MCOV)	130 VAC (L-N)		
Rated Output (Amps)	15 Amperes		
Connection Type	(6) 5-15R Receptacles and 5-15P Plug		
Phase Configuration	2 Wire + Gnd		
Enclosure	High Impact Plastic		
Modes Of Protection	L-N, L-G, N-G		
Response Time	< .5 ns Normal mode		
Dimensions (in / mm)	7.5" L x 4.75" W x 1.75" D [190.5 x 120.65 x 45 mm]		
Weight (lb / kg)	2.0 lb [0.907 kg]		
Warranty	5 Year		
Certifications	UL 1449 Listed		
Low Voltage Protection	Video 1 & 2	Phone	Network
Connection Type	Type "F"	Type RJ11	Type RJ45
Cables Provided	(2x), 6', Type "F" Ends	6', RJ11, Male Ends	6', RJ45, Male Ends
Peak Surge Current	5kA (8x20us)	2kA (10x1000us)	3kA (8x20us)
Capacitance	<12pf	<50pf	<70pf
Protection Modes	L-G	T-R, T-G, R-G	L-G (8 Lines)
Clamping Voltage (DC)	145V	270-350V	30V
Attenuation	1db @ 2Ghz	N/A	N/A

### **⚠ DANGER!**

Only qualified personnel should install or service this system. Electrical safety pre-cautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

Seulement le personnel qualifié doit installer ou maintenir ce système. Des précautions de sécurité en électricité doivent être suivies lors de l'installation ou de la maintenance de cet équipement. Pour éviter tout risque de choc électrique, débranchez et verrouillez toutes les sources d'alimentation de cet équipement avant de.

## Installation Instructions



### Step 1: Connecting SP-6TVN to a Duplex Receptacle

Remove the duplex receptacle mounting screw. If the duplex receptacle face plate is metal, remove it otherwise leave in place. Place SP-6TVN and the duplex receptacle face plate, (if plastic) over the duplex receptacle. Insert the blades of the SP-6TVN into the duplex receptacle. Tighten the mounting screw.

When installed in a properly grounded receptacle, SP-6TVN's indicator light will be operational. If the indicator light does not illuminate, it means the wall receptacle has an incorrect ground. Try the SP-6TVN in a different wall outlet. If it still doesn't illuminate, contact the office where you purchased your SP-6TVN.

You can reposition the SP-6TVN receptacles on each side to provide clearance for your power cords if needed and connect up to 15 amps of equipment load.



### Step 2: Connecting your Video Electronics to the SP-6TVN

Disconnect the video cable going to your home entertainment system. Check to make sure that the small center wire inside the video connection is straight, (not bent) and then connect it to the "IN" of one of the video suppressor connections on the SP-6TVN.

Open one of the jumper wires that came with the SP-6TVN. Connect one end to the "OUT" connection on SP-6TVN and connect the other end to the original connection on the home entertainment equipment. If you have a second video device to protect, perform the same steps using the second coaxial cable that came with your SP-6TVN.



### Step 3: Connecting your Telephone Electronics to SP-6TVN

Disconnect the end of your telephone line where it comes out of the wall. Connect it to one of the "OUT" telephone port connections, (see diagram) on SP-6TVN. (Note: Do not use the data port for telephone line suppression). Connect one end of the telephone line patch cord that came with the SP-6TVN to the "IN" line connection on the SP-6TVN. Connect the other end to the original wall outlet.



### Step 4: Connecting Network Electronics to SP-6TVN

Disconnect the end of your network line from your computer or router. Plug the end of the line to the SP-6TVN network connector ports marked "IN". Connect one end of the network line patch cord that came with the SP-6TVN to the "OUT" connection on the SP-6TVN. Connect the other end to your computer or router.

## Troubleshooting

If, in Step 1 and 2 on the previous page, the SP-6TVN indicator did not illuminate:

1. Try plugging it into a different wall receptacle. If the light illuminates, then the SP-6TVN is operating properly and your first wall receptacle needs repair. Please contact an electrician to repair your receptacle.
2. If the SP-6TVN does not illuminate in a different receptacle:
  - a. Your building wiring may not contain a ground conductor. In this case, the indicator light will not illuminate but you will still have power out of the SP-6TVN.
  - b. SP-6TVN may have been damaged, please contact your supplier for warranty instructions.

On a very rare occasion, your protected electronic appliance may not have power. This is an indication that the SP-6TVN has been overloaded and the internal fuse is damaged. In this case, please contact your supplier for any warranty repair/return instructions.

## Warranty

SP-6TVN comes with a standard manufacturer's limited warranty on defects in materials and workmanship. The warranty provides repair or replacement appliance coverage up to a limit. Contact the office where you purchased your SP-6TVN for more information and warranty details.

## Ordering Information

### MODEL

SP-6TVN

### APPLICATION

Home or Office Equipment