



TVSS—Surge Protection



One of the more important elements of a complete lightning protection system is the installation of TVSS or surge protection. For the most complete system, surge protection is installed on the incoming electric service panel, telephone lines and cable television. TVSS is a requirement for a UL 96A approved lightning protection system.

On the pages that follow, you will find several surge units for residential and light duty commercial applications. These units are considered stock items and are available to ship upon receipt of your order. One new item we have recently added to our product line is the DTK-WH5 Whole House Protection Kit. This kit includes surge units for the electric service panel, cable TV and telephone line.

IPC has teamed up with Ditek Corporation to provide our customers a total line of surge protection units for any application. Ditek units have a full warranty and are guaranteed by Ditek. Ditek units are UL approved units and are provided with installation and warranty information.

For specific commercial and industrial applications, please provide the necessary information on the form which follows this page. After a review by Ditek and IPC, we will provide our recommendation and supply applicable pricing options.



Independent Protection Co., Inc.

P.O. Box 537

Goshen, IN 46527-0537

Ph: 574.533.4116 or 800.860.8388

Email: info@ipclp.com

Website: www.ipclp.com

Fax: 574.534.3719



TVSS—Surge Protection Information Sheet



Please fill out this form and fax to Independent Protection Co., Inc. at 574-534-3719. Upon our review, we will return this form with our recommendation(s), price and delivery.

From/To: _____ Date: _____
 Customer Name: _____ Your Name: _____
 Phone No.: _____ Fax No.: _____
 Job Ref.: _____ Location: _____

INFORMATION REQUIRED FOR SURGE PROTECTION RECOMMENDATION

POWER PROTECTION

- 1) Type of structure being protected: _____
(i.e., small manufacturing facility, hospital, barn, etc.)
- 2) Panel voltage and wiring configuration: _____
(i.e., 277/480 3 phase 4 wire)
- 3) Is panel surface or flush? Surface Flush
- 4) Options wanted: _____
(i.e., Integral Disconnect, Surge Counter, Alarm, etc.)
- 5) Panel location: Inside Outside
- 6) Available Breaker, or space, in panel? Yes No
- 7) Type of equipment to protect: _____
- 8) How is equipment connected? Hardwired Plug-In
- 9) Voltage and wiring configuration of equipment: _____

LOW VOLTAGE PROTECTION

- 1) Type of system: _____
(i.e. Telephone, CCTV, Nurse Call, Computer Network)
- 2) Maximum operating voltage: _____
- 3) Maximum operating amperage: _____
- 4) Number and size of wires: _____
- 5) Method of connection: _____
(i.e. 66 Block, Amphenol, Terminal Strip, etc.)
- 6) Data speed: _____
- 7) Length of wire run _____
- 8) Will adding 9-18 OHMS affect the system? Yes No

IPC Response:

IPC recommendation, price and delivery (specification sheet follows): _____



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TVSS—Surge Protection

DTK-WH5 ★ Whole House Protection Kit

All Whole House Kits Packaged For Presentation.



Kit contains surge for AC panel, telephone and cable television.

DTK-2LVLPSCP-RUV

The DTK-2LVLPSCP-RUV is a solid state suppressor for two incoming telephone lines. It provides fully automatic, self restoring over voltage protection, as well as DITEK'S exclusive AutoSneak[®] over current protection.

DTK-VSP-A

The DTK-VSP-A is a solid state suppressor for incoming CATV. Provides complete protection before the service splits within the home. It can also be used in conjunction with internet services via your cable TV.

DTK-120/240HD Series II

The DTK-120/240HD Series II is a solid state, heavy duty surge suppressor for Residential and Commercial use. It can be installed at the service panel or service disconnect. The DTK-120/240HD Series II is internally fused for safety and is 125KA surge current capable.



★ Denotes normally stocked item available for shipment within 48 hours. Items not stocked are available within 14 days.



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TVSS—Surge Protection



DTK-120/240 SA (Commercial Structure) ★

Physical Specifications

Product Description: 200KA 120/240V 1(P) Arrester w/Filter

Housing	NEMA 4/4X
Color	Gray
Size	5.25 in. x 5.25 in. x 2.25 in.
Weight	1.450

Electrical Specifications

Class:	Secondary Surge Arrester, Class C
Installation Point:	Meter Base, main panel, disconnect or weatherhead
Agency Approvals:	UL-OWHX, cUL, ANSI/IEEE C.62.11
Connection Method:	Hard wired, parallel
Continuous Current:	Unlimited
Response Time:	<5 nSec
MCOV:	250VAC L - N, 500VAC L - L
Operating Frequency:	0 - 400 Hz
AC Protection Modes:	L - G, L - L
Service Voltage:	120/240VAC
Diagnostics:	Indicator lights for suppression and available ground
EMI/RFI Noise Filtering:	up to 50db 100 KHz - MHz
Max Surge Current:	200,000 Amps (8x20 usec)
Max Energy Dissipation:	2640 Joules



DTK-120/240 HD2 (Residential/Light Commercial AC) ★

Physical Specifications

Product Description: AC hard-wired transient voltage surge suppressor

Housing	NEMA 4 Waterproof
Color	Gray
Size	4.00 in. x 4.00 in. x 2.25 in.
Weight	1.300

Electrical Specifications

Class:	AC Hard-Wired Transient Voltage Surge Suppressor
Installation Point:	Electrical Panel, Equipment Disconnect
Agency Approvals:	UL 1449, cUL, ANSI/IEEE C.62.41
Connection Method:	Hard wire parallel connection
Continuous Current:	Unlimited (Parallel Installation)
Response Time:	<5 nSec
MCOV:	130VAC (L - N, L - G, N - G)
Operating Frequency:	0 - 400 Hz
AC Protection Modes:	L - N, L - G, N - G
Service Voltage:	120 / 240 Split Phase
Diagnostics:	Indicator lights - Surge Protection present
EMI/RFI Noise Filtering:	50db 100 KHz - 100 MHz
Max Surge Current:	125,000 Amps
Max Energy Dissipation:	1050 Joules
Suppressed Voltage Rating:	700V (L - L), 400V (L - G, L - N, N - G)



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TVSS—Surge Protection



DTK-2P-RUV (2-Line Telephone) ★

Physical Specifications

Product Description: 66 Block Punch Down 2 Pair

Housing	High impact plastic
Color	Gray
Size	2.0 in. x 2.0 in. x .75 in.
Weight	0.150

Electrical Specifications

Class:	Telephone line protector
Installation Point:	66 block punch down at point of use
Agency Approvals:	UL497B
Connection Method:	Punchdown on M150 - 66 block
Continuous Current:	Unlimited
Response Time:	<5 nSec
MCOV:	175VDC
Max Surge Current:	2,400 Amps (per pair)
Max Energy Dissipation:	22 Joules (per pair)
Typical Let Through Voltage:	184.0 - 224.0 (per pair)



DTK-VSP-A (Coax Cable) ★

Physical Specifications

Product Description: Video Line Coax (F Connector) (CATV)

Housing	High impact plastic
Color	Black
Size	3.25 in. x 1.25 in. x 1.00 in.
Weight	.0150

Electrical Specifications

Class:	Coaxial Cable Protector
Installation Point:	CATV Entry
Agency Approvals:	UL 1449, cUL, ANSI/IEEE C.62.41
Connection Method:	Female IN/OUT
Response Time:	<5 nSec
MCOV:	75VDC (center pin-shield), 38 VDC (shield ground)
Impedance:	75 Ohms
Standing Wave Ratio:	1.2:1
Band Pass:	0-1.5 GHz
Insertion Loss:	<0.3dB @ .3 KHz - 1.1 MHz; <-3.0dB loss 3.0 - 4.



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TVSS—Surge Protection



DTK-1T (AC Power and Tele-Com) ★

Ready to use plug in unit for office and computer products, home electronics or other communication devices.

Physical Specifications

Product Description: AC Power and Tele-Com Surge Protector

Housing	Fire Retardant Plastic
Color	Ivory
Size	3.27 in. x 2.20 in. x 1.18 in.
Weight	0.28

Electrical Specifications

Class:	Single Outlet Surge Suppressor with Telco Protection
Installation Point:	Indoor at point of use
Agency Approvals:	UL-1449, UL 497 A
Connection Method:	Plug-in
Continuous Current:	15A
Response Time:	<1 nSec
MCOV:	125VAC
Operating Frequency:	50/60 Hz
AC Protection Modes:	L - N, L - G, N - G
Service Voltage:	120 VAC
Diagnostics:	Light Indicating Surge Protection Present
EMI/RFI Noise Filtering:	40 dB 150 KHz ~ 100 MHz
Surge Current:	4,500 Amps (Max)
Suppressed Voltage Rating:	330V (UL's Best Rating)
Max Energy Dissipation:	AC:270 Joules Fax/Modem: 72 Joules



DTK-1C (TV-VCR-FM Stereo) ★

Ready to use plug-in unit for TV, VCR or FM stereo applications

Physical Specifications

Product Description: AC Power Surge Protector

Housing	Fire Retardant Plastic
Color	Ivory
Size	3.27 in. x 2.20 in. x 1.18 in.
Weight	.029

Electrical Specifications

Class:	Single Outlet Surge Suppressor with Coax Protection (two Female "F" Connectors)
Installation Point:	Indoor at point of use
Agency Approvals:	UL 1449
Connection Method:	Plug-in
Continuous Current:	15A
Response Time:	<1 nSec
MCOV:	125VAC
Operating Frequency:	50/60 Hz
AC Protection Modes:	L - N, L - G, N - G
Service Voltage:	120 VAC
Diagnostics:	Light Indicating Surge Protection Present
EMI/RFI Noise Filtering:	40db 150 KHz ~ 100 MHz
Max Surge Current:	4,500 Amps
Max Energy Dissipation:	AC: 270 Joules
Insertion Loss:	Less than 0.1dB at 10 MHz



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