

## DC Surge Protector SPD I2R Indoor DIN-Rail 500 Vdc, Single-Mode, 50 kA MOV



### I2R-T2DC-500S-TT

#### Features

- UL 1449 5th Edition Listed, Type 2 SPDs
- High Capacity 50kA MOV Protection
- Local and Remote Visual Status Indicators
- DIN-Rail Mount

#### Applications

- Communications Base Stations
- Industrial Automation
- Photovoltaic Power Systems
- IT & Data Centers
- Utilities

#### Description

DC surge protector (also known as SPD or lightning protector) I2R-T2DC-500S-TT from Transtector is a DIN-Rail style SPD that utilizes state of the art MOV technology to protect critical equipment that operates on a 500 Vdc electrical service. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by safely shunting high amounts of transient energy while maintaining a very low clamping voltage. Transtector DC surge protectors are available in stock with same day shipping.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Service Voltages (DC)		500		Vdc
Maximum Continuous Operating Voltage (MCOV)				
MCOV DC			560	Vdc

#### Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge Protection Technology		MOV		
Surge Protection Modes		LINE-RET or LINE-GND		
Response Time			25	ns
8/20µs Surge Current		20	50	kA
VPR 8/20µs L-G			1,500	Vpk
Nominal Discharge Surge Current (In)		20		kA
SCCR (Short Circuit Current Rating)		100		kAIC

#### Mechanical Specifications

##### Size

Height	3.94 in	[100.08 mm]
Width	0.71 in	[18.03 mm]
Depth	2.56 in	[65.02 mm]
Weight	0.4 lbs	[181.44 g]
Housing Material and Plating	ABS	

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#### Environmental Specifications

Temperature Range (Operational)	-40 to +85 deg C
Environmental Protection Rating	IP20
Humidity	95% non-condensing

#### Installation

Mount Type	DIN-Rail
Service Wiring Terminal	
Compression Lug	#10 to #4 AWG
Status Indication Terminal	
3-Position Screw Terminal	#22 to #16 AWG

#### Compliance Certifications

UL Compliant	UL 1449 5th Ed.
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [DC Surge Protector SPD I2R Indoor DIN-Rail 500 Vdc, Single-Mode, 50 kA MOV I2R-T2DC-500S-TT](#)

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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URL: <https://www.transtector.com/dc-surge-protector-spd-i2r-indoor-din-i2r-t2dc-500s-tt-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume liability arising out of the use of any part or document.

I2R-T2DC-500S-TT CAD Drawing

DC Surge Protector SPD I2R Indoor DIN-Rail 500 Vdc, Single-Mode, 50 kA MOV

