POWER SUPPLY SYSTEM



Class I + Class II (T1+T2), PV DC Surge Arresters

PV50/75-V-S



PV50/75-V-S is class I & class II (or T1+T2) single pole PV DC SPD designed for DC application such as PV/ Photovoltaic system dc-side protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in PROSURGE high energy MOV, PV50/75-V-S ensures remarkable lightning current discharge capacity up to 7.5kA 10/350µs and high reliability. The unique design of thermal protection provides quick thermal response and secure disconnection.

- TUV certified T1+ T2 PV DC SPD per IEC/EN 61643-31 standard.
- 18mm narrow model design, Single pole SPD for multi-purpose surge protection
- Application in Photovoltaic (PV) systems and other DC power system like charging system for electric vehicles etc.
- Unique thermal disconnector design
- Lightning current capacity up to 7.5kA 10/350µs
- Surge current capability up to 50kA 8/20µs
- Low voltage protection level
- Degradation failure indication and optional remote signal contact.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with EN 50539-11,UL1449 5th, IEEE C62.41,CSA C22.2 standards

PrSurge[®]

POWER SUPPLY SYSTEM

Technical data

Part No.	PV50/75-V-S
In accordance with	IEC/EN 61643-31; UL1449 5 th ; EN 50539-11
Category IEC/EU/VDE	I+ II /1+2/ B+C
Protection mode	DC+ to DC- or DC+/- to PE
Nominal Voltage (DC) Un	75V
Max. continuous operating voltage (DC) Ucpv	100V
Nominal discharge current (8/20) In	20kA
Max. discharge current (8/20) Imax	50kA
Lightning impulse current (10/350) limp	7.5kA
Voltage protection level Up	0.6kV
Response time tA	≤25ns
Leakage Current Ipe	<0.1mA
Short-circuit Current Iscpv	1000A
Operating temperature range	- 40ºC ~ + 85ºC
Altitude	-500m ~ +4000m
Cross-section of connection wire (max)	Single-strand 35mm ² ; multi-strand 25mm ²
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3
Enclosure material	thermoplastic; extinguishing degree UL94 V-0
Degree of protection	IP20
Installation width	1 module, DIN 43880
Thermal disconnector	Internal Green – normal ; red - failure
Remote alarm contact	"-S" means with remote alarm contact
Approvals, Certifications	TUV CE
Additional data for Remote Alarm Contacts	
Remote alarm contact type	Isolated Form C
Switching capability Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of remote signaling wire	Max. 1.5mm ² (or # 16AWG)