

Type 2 PV Surge Protectors

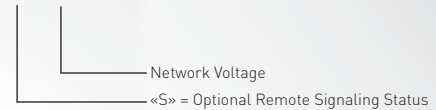
DS50PV Series



DS50PVS-1000

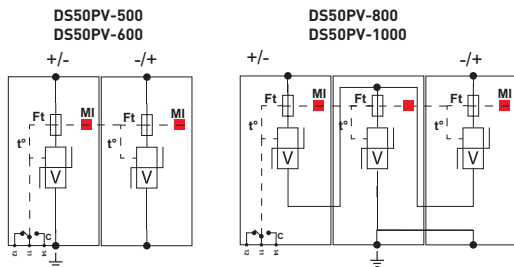
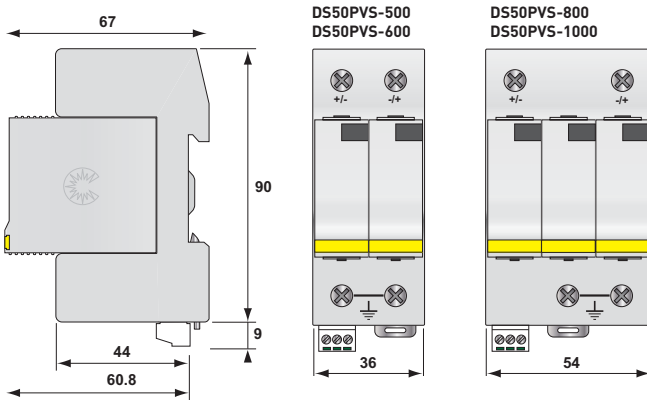
- **Type 2 DC Power Surge Protector for PV Systems**
- **Designed with High Energy MOV's**
- **Modular Design for Ease of Maintenance**
- **Integrated Status Indicator Window**
- **I_{max} : 40 kA /pole at 8/20 μ s**
- **I_n : 20 kA /pole at 8/20 μ s**
- **UL 1449 3rd Edition Recognized**

DS50PVS-xxx



Dimensions and Electrical Diagram

(in mm)



GSG: Gas-Filled Spark Gap
 V: High energy MOV
 MI: Disconnection indicator
 Ft: Thermal fuse
 t*: Thermal disconnection mechanism
 C: Contact for remote signal (option DS50PVS-xxx)

Characteristics

CITEL part number	DS50PV-500	DS50PV-600	DS50PV-800	DS50PV-1000
Maximum PV Voltage	Uocstc 500 Vdc	600 Vdc	800 Vdc	1000 Vdc
Protection Mode *	CM/DM	CM/DM	CM/DM	CM/DM
Maximum Operating Voltage	Ucpv 530 Vdc	680 Vdc	840 Vdc	1060 Vdc
Current Withstand Short-Circuit	Iscwcpv >1000 A	>1000 A	>1000 A	>1000 A
Operating Current to the Voltage Ucpv	Icpv < 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA
Leakage Current to the Voltage Ucpv	Ipe < 0.1 mA	< 0.1 mA	< 0.1 mA	< 0.1 mA
Nominal Discharge Current 15 x 8/20 μ s Impulses	I_n 20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current 8/20 μ s Withstand	I_{max} 40 kA	40 kA	40 kA	40 kA
Protection Level (at In)	Up <1.8 kV	<2.5 kV	<3 kV	<3.6 kV
Disconnecter				
Thermal Disconnecter	internal			
Mechanical Characteristics				
Dimensions	see diagram			
Connection	by screw terminal : 4-25 mm ²			
End of Life Mode	disconnection of the SPD from PV line			
Disconnection Indicator	by mechanical indicator			
Remote Signaling of Disconnection	Option DS50PVS-xxx			
Mounting	symmetrical rail 35 mm			
Operating Temperature	-40/+85 °C			
Protection Class	IP20			
Housing Material	Thermoplastic UL94-V0			
Standards Compliance				
prEN50539- 11: Europe	PV Surge Protection - Class I and II Testing			
UL1449 3rd Edition: USA	Type 4, for use in type 2 locations			
Part Number				
DS50PVS-500	480112			
DS50PVS-600	480411			
DS50PVS-800	480212			
DS50PVS-1000	480312			

(*) CM = Common mode (+/PE or -/PE) - DM = Differential mode (+/-)

