

PV Surge protective devices

GSP9-C40PV



Summary

The surge protection device belongs to the T2 photovoltaic DC system surge protector, which can be installed in the solar panel, the connection between the solar panel and the controller, between the controller and the inverter or other DC power supply end, used to release, inhibit and reduce the overcurrent and overvoltage caused by induced lightning strike or the power grid system, so as to reduce the harm to electrical equipment

Characteristic

Model No.: Type U
Chinese Standard:GB/T 18802.31-2016
European standard :EN 50539-11:2012

Protective Elements:High Energy MOV
IEC: IEC 61643-31: 2018
Certificates :TUV、CE、CQC

Technical Data (Type 2 (T2) PV Surge protective devices 20kA-40kA)

Technical Data		
Max Continuous Operating Voltage	U_{CPV}	1000VDC
Nominal discharge current(T2)	I_n	20kA
Maximum discharge current	I_{max}	40 kA
Protection level	U_p	3.5 kV
Admissible short-circuit current	I_{scpv}	500A
I_{cpv} PV		0.2 mA
Connection mode		parallel
Response Time	t_A	25ns
SPD Special disconnecter	Recommend	SSD40
Remote communication		With
Remote communication connection		14 11:NO, 11 12:NC
Remote contact rated current		220V/0.5A

Associated disconnectors

Thermal	disconnecter internal
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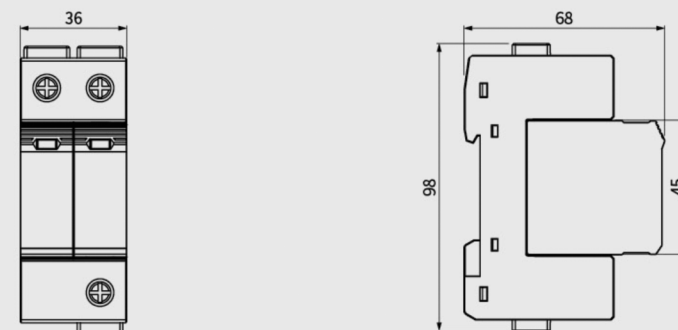
Mechanical characteristics

Connection By screw terminals	6-25mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 10mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

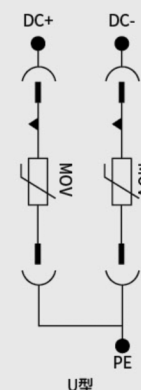
Size

Model No.	Type U
600V Size (mm)	36×83×67
1000V Size (mm)	36×83×67
1500V 2000V Size (mm)	/
Packing	Inner box
Delivery packaging	Carton or Pallet

Dimensional drawing



Schematic diagram



Wiring diagram

