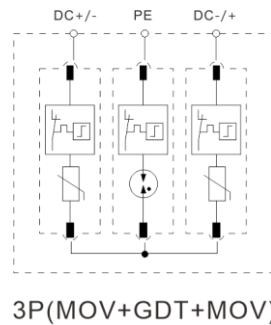


Combination type – CLASS I+II

SP50-1200PV (CV081351)

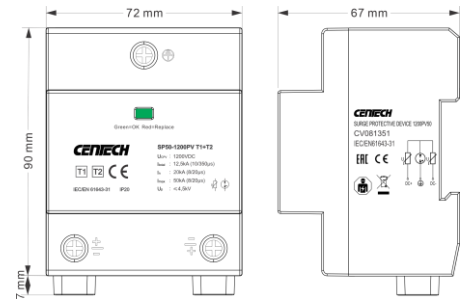


Outside drawing



3P(MOV+GDT+MOV)

Basic circuit diagram



Dimension drawing

Designed for photovoltaic applications, our SP50-1200PV DC Surge Protection Devices conform to the PV T1+T2 class of the EN 61643-31 standard.

With a front window for quick status checks and a remote-signal port for convenient remote indication and alarms.

Our products boast an extended creepage distance, ensuring enhanced performance and safety.

- Maximum discharge current  $I_{max}$  50 kA (8/20 $\mu$ s)
- Impulse discharge current  $I_{imp}(total)$  12.5 kA (10/350  $\mu$ s waveform)
- For grounded and ungrounded PV systems
- Fault indication by red indication flag in window
- With remote alarm terminal optional

Part No.	SP50-1200PV
In accordance with	EN/IEC 61643-31
Category IEC/VDE	I + II/ B + C
Max. continuous operating voltage $U_c$ (DC)	1200V DC
Nominal discharge current(8/20) $I_n$	20kA
Max. discharge current(8/20) $I_{max}$	50kA
Total Discharge Current (10/350 $\mu$ s) $I(Total)$	12.5kA
Voltage protection level @ $I_n$	<4,5kV
Response time	$\leq 25$ ns
Follow current	No
Backup fuse(only required if not already provided in mains)	125A gL/gG
Operating temperature range $T_a$	- 40°C ~ + 80°C
Cross-section of connection wire	Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>
Torque applied by the screws	2.0-2.5 Nm
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3
Enclosure material	Thermoplastic: Extinguishing Degree UL 94 V-0
Housing protection level	IP20
Installation width	3 modules, DIN 43880
Thermal disconnecter	Internal green – normal ; red - failure
Remote alarm contact Optional feature	Yes
Additional data for Remote Alarm Contacts	Closed and open 1.5mm <sup>2</sup> / 0.5 Nm ,max
Remote alarm contact type	Isolated Form C
Switching capability $U_n/I_n$	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Max. Size of connecting wire	Max. 1.5mm <sup>2</sup> (or # 16AWG)