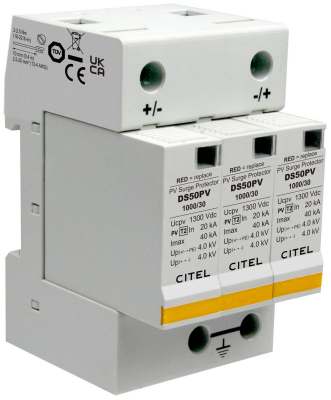
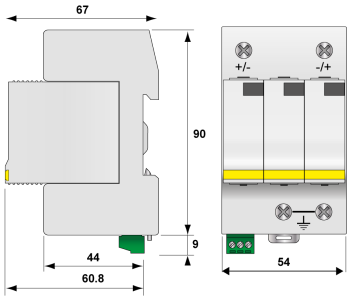
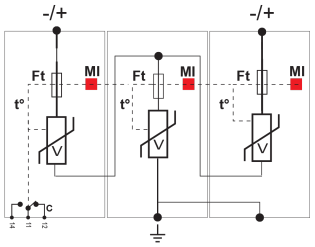
Type 2 PV surge protector

DS50PV-1000/30



- Type 2 surge protector for PV
- In: 20kA / Imax : 40kA
- Pluggable
- Remote signaling (option)
- IEC 61643-31, EN 61643-31 and EN 50539-11 certified
- UL1449 ed.5 compliance





V: High-energy varistor
Ft: Thermal fuse
t°: Thermal disconnection system
MI: Disconnection indicator

Electrical Characteristics		
SPD type	IEC	2
Network		PV network 1000 Vdc
Nominal PV voltage	Uocstc	1000 Vdc
Max. PV operating voltage	Ucpv	1300 Vdc
Max. PV operating voltage (star mounting)	Ucpv	1300 Vdc
Residual Current *Leakage current to Ground*	Ipe	< 0.2 mA
PV Permanent Operating current *Current consumption at Ucpv*	Icpv	< 0.1 mA
Follow current	If	None
Nominal discharge current *15 x 8/20 µs impulses*	In	20 kA
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	40 kA
Total Maximum discharge current *max. total withstand @ 8/20 µs*	Imax Total	60 kA
Current withstand short circuit PV	Iscpv	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level CM/DM *@ In (8/20µs)*	Up mc /md	4.0 kV/4.0 kV
Mechanical Characteristics		
Technology		MOV
Connection to Network		By screw terminals: 2.5-25mm²
Format		Monobloc modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection SPD of the PV line
Disconnection indicator		3 mechanical indicators
Remote signaling of disconnection		Option DS50PVS-1000/30: Output on changeover contact
Dimensions		See diagram
Disconnectors		
Thermal disconnector		Internal
Standards		
Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
Certification		TUV Süd
Part number		
48030110		