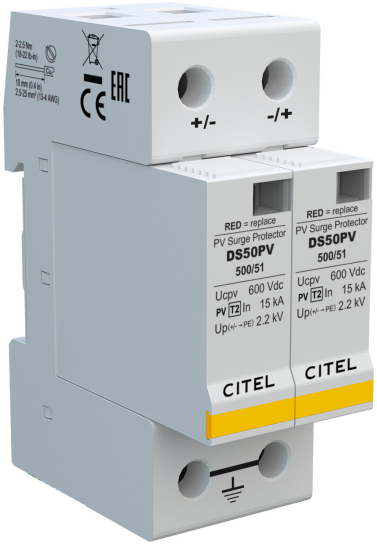
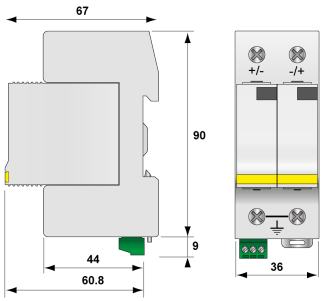
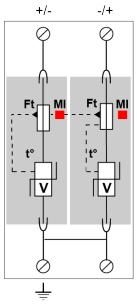
Type 2 PV surge protector

DS50PV-500/51



- Type 2 surge protector for Photovoltaic
- PV Voltage: 500 Vdc
- In : 15 kA
- Imax : 40 kA
- Pluggable module
- Remote signaling (option)
- IEC 61643-31/EN61643-31 compliance





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

Electrical Characteristics		
SPD type	IEC	2
Network		PV 500 Vdc
Nominal PV voltage	Uocstc	500 Vdc
Max. PV operating voltage	Ucpv	600 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	15 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 mode
Protection level +/PE (-/PE) *@ In (8/20µs)*	Up	2.2 kV
Mechanical Characteristics		
Technology		MOV
Connection to Network		By screw terminals: 2.5-25mm²
Format		Plug-in 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		2 mechanical indicators
Spare module(s)		DSM50PV-500/51
Remote signaling of disconnection		Option DS50PVS-500/51 - output on changeover contact
Dimensions		See diagram
Weight		0.235 kg
Disconnectors		
Thermal disconnector		Internal
Back-up protection device		Without
Standards		
Standards compliance		EN 61643-31 / EN 50539-11
Certification		
Part number		
480121		