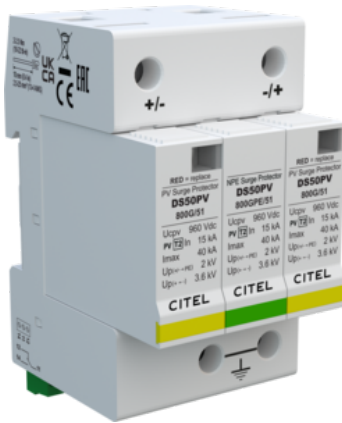




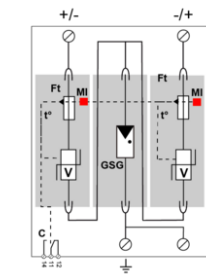
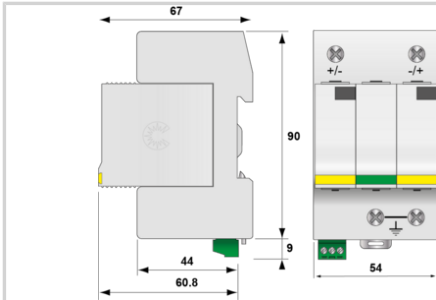
## Type 2 PV surge protector

# CITEL

## DS50PVS- 800G/51



- Type 2 surge protector for PV
- In : 15kA / I<sub>max</sub> : 40kA
- Pluggable
- Remote signaling
- UL1149 ed.5 certified
- IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance



V: High-energy varistor  
 GSG: Specific gas tube  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

Electrical Characteristics		
SPD type		2
Network		PV network 800 Vdc
Nominal PV voltage	U <sub>ocstc</sub>	800 Vdc
Max. PV operating voltage	U <sub>cpv</sub>	960 Vdc
Residual Current	I <sub>pe</sub>	None
Leakage current to Ground		
PV Permanent Operating current	I <sub>cpv</sub>	< 0.1 mA
Current consumption at U <sub>cpv</sub>		
Follow current	I <sub>f</sub>	None
Nominal discharge current	I <sub>n</sub>	15 kA
15 x 8/20 μs impulses		
Max. discharge current	I <sub>max</sub>	40 kA
max. withstand @ 8/20 μs by pole		
Total Maximum discharge current	I <sub>max Total</sub>	60 kA
max. total withstand @ 8/20 μs		
Current withstand short circuit PV	I <sub>scpv</sub>	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- @ I <sub>n</sub> (8/20μs)	U <sub>p</sub>	3.6 kV
Protection level +/-PE (-/PE) @ I <sub>n</sub> (8/20μs)	U <sub>p</sub>	2 kV
Mechanical Characteristics		
Technology		MOV+GDT
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> / by bus
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	T <sub>u</sub>	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection SPD of the PV line
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PV-800G/51
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Disconnectors		
Thermal disconnector		Internal
Back-up protection device		Without
Standards		
Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
Certification		
Part number		
480291		

