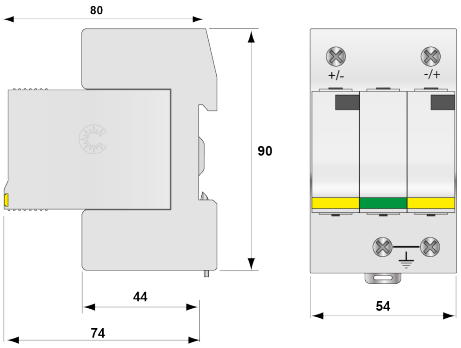


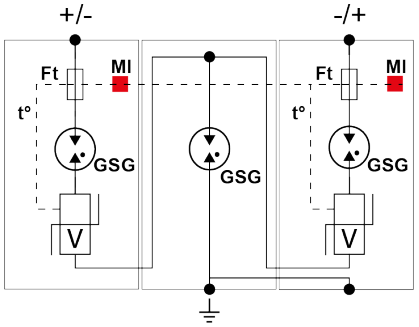
DS50VGPV-1000G/51

- Type 2 surge protector for photovoltaic
- VG technology
- 1000 Vdc
- No leakAge, no operating currents
- Improved life expectancy
- In/Imax : 15 / 40 kA
- Common/Differential mode protection
- Remote signaling (option)
- UTE C61-740-51, EN 61643-11 compliance

Electrical Characteristics		
SPD type *following IEC test*		2
Network		PV network 1000 Vdc
Nominal PV voltage	*Uocstc*	1000 Vdc
Max. PV operating voltage	*Ucpv*	1200 Vdc
Residual Current *Leakage current to Ground*	*Ipe*	None
PV Permanent Operating current *Current consumption at Ucpv*	*Icpv*	None
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 Maximal discharge current *max. total withstand @ 8/20 µs*	*Imax Total*	60 kA
Current withstand short circuit PV	*Iscpv*	15000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level *@ In (8/20µs)*	*Up*	3.5 kV
Protection level L/N *@ In (8/20µs)*	*Up L/N*	3.5 kV
Protection level L/PE *@ In (8/20µs)*	*Up L/PE*	3.5 kV
Protection level CM/DM *@ In (8/20µs)*	*Up mc/ md*	2.8/5.1 kV
Internal short circuit protection		No
Internal Thermal protection		Yes

Mechanical Characteristics		
Technology		VG
Connection to Network		Screw terminals: 2.5-25mm²
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN60715)
Housing material		Thermoplastic UL94-V0
Operating temperature		-40/+85°C
Protection rating		IP20
Failsafe behavior		Disconnection SPD of the PV line
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50VGPV-1000G/51
Remote signaling of disconnection		Option DS50VGPVS-1000G/51 - output on changeover contact
Dimensions		See diagram





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

Disconnectors		
Thermal disconnector		Internal
Fuses		Without
Standards		
Standards compliance		EN 61643-11
Certification		VDE / OVE / EAC / UL Listed
Part Number		481301