



- ✦ Type 1+2 surge protector for Photovoltaic
- ✦ VG Technology
- ✦ No leakage, no operating currents
- ✦ Improved life expectancy
- ✦ Impulse currents limp/ltotal: 6.25/12.5 kA (10/350µs)
- ✦ Common/Differential mode protection
- ✦ Pluggable module
- ✦ Remote signaling
- ✦ UL1449 ed.5 compliance
- ✦ IEC 61643-31, EN 61643-31 certified



Electrical Characteristics			
SPD type	IEC	1+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	I _{max}	40 kA	
Total Maximum discharge current max. total withstand @ 8/20 µs	I _{max} Total	60 kA	
Impulse current by pole max. withstand 10/350µs by pole	I _{imp}	6.25 kA	
Total lightning current max. total withstand @ 10/350µs	I _{total}	12.5 kA	
Current withstand short circuit PV	I _{scpv}	15 000 A	
Protection mode(s)	Common/Differential mode		
Protection level +/- @ In (8/20µs)	Up	5.8 kV	
Protection level +/-PE (-/PE) @ In (8/20µs)	Up	4.5 kV	
Mechanical Characteristics			
Technology	VG Technology (MOV+GSG)		
Connection to Network	By screw terminals: 2.5-25mm ²		
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		
Disconnection indicator	3 mechanical indicators		
Spare module(s)	DSM50VGPV-1000/12KT1 + DSM50VGPV-1000PE/12KT1		
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	TUV		
Part number			
485373			