



- ✦ 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 <sub>max</sub>	40 kA	
Total Maximum discharge current max. total withstand @ 8/20 µs	I <sub>max</sub> Total	60 kA	
Impulse current by pole max. withstand 10/350µs by pole	I <sub>imp</sub>	6.25 kA	
Total lightning current max. total withstand @ 10/350µs	I <sub>total</sub>	12.5 kA	
Current withstand short circuit PV	I <sub>scpv</sub>	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 <sup>2</sup>	
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	
Weight		0.450 kg	
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			