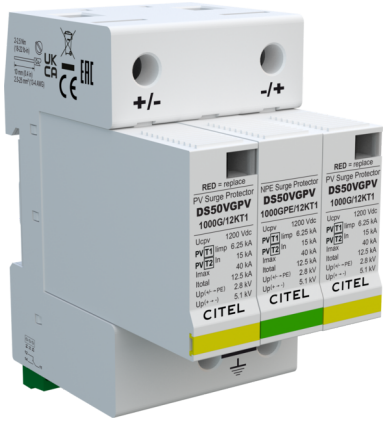
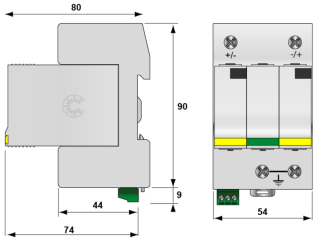
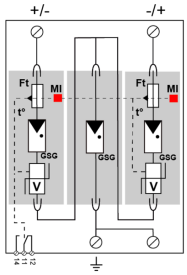
Type 1+2 PV surge protector

DS50VGPVS-1000G/12KT1



- Type 1+2 surge protector for Photovoltaic
- VG Technology
- No leakage, no operating currents
- Improved life expectancy
- Impulse currents Iimp/Itotal: 6.25/12.5 kA (10/350µs)
- Common/Differential mode protection
- Pluggable module
- Remote signaling
- IEC 61643-31, EN 61643-31, 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	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	Imax	40 kA
Total Maximum discharge current max. total withstand @ 8/20 µs	Imax Total	60 kA
Impulse current by pole max. withstand 10/350µs by pole	Iimp	6.25 kA
Total lightning current max. total withstand @ 10/350µs	Itotal	12.5 kA
Current withstand short circuit PV	Iscpv	15 000 A
Protection mode(s)		Common/Differential mode
Protection level +/- @ In (8/20µs)	Up	5.1 kV
Protection level +/PE (-/PE) @ In (8/20µs)	Up	2.8 kV
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
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
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50VGPV-1000G/12KT1 / DSM50VGPV-1000GPE/12KT1
Remote signaling of disconnection		output on changeover contact
Dimensions		See diagram
Weight		0.362 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
Part number		
482313		