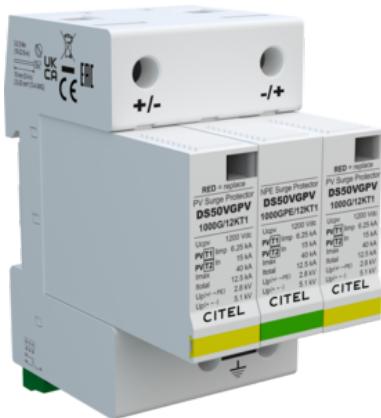


Type 1+2 PV surge protector

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

Electrical Characteristics	
SPD type	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: 2.5-25mm 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	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

