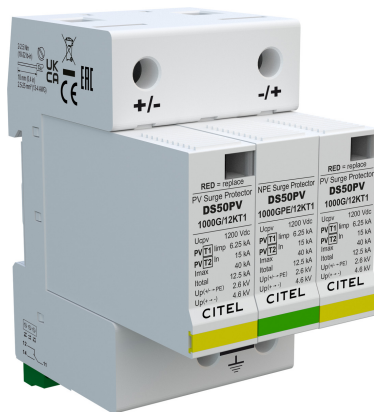




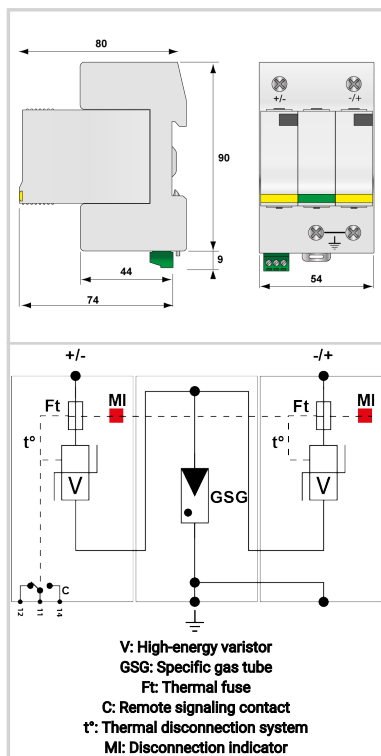
CITEL



Type 1+2 PV surge protector

DS50PVS-1000G/12KT1

- › Type 1+2 surge protector for Photovoltaic
- › Impulse currents I_{imp}/I_{total} : 6.25/12.5 kA (10/350 μ s)
- › Common/Differential mode protection
- › Remote signaling
- › IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



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	Ipe	None
Leakage current to Ground		
PV Permanent Operating current	Icpv	< 0.1 mA
Current consumption at Ucpv		
Follow current	If	None
Nominal discharge current	In	15 kA
15 x 8/20 μ s impulses		
Max. discharge current	Imax	40 kA
max. withstand @ 8/20 μ s by pole		
Total Maximum discharge current	Imax Total	60 kA
max. total withstand @ 8/20 μ s		
Impulse current by pole	Iimp	6.25 kA
max. withstand 10/350 μ s by pole		
Total lightning current	Itotal	12.5 kA
max. total withstand @ 10/350 μ s		
Current withstand short circuit PV	Iscpv	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/-	Up	4.6 kV
@ In (8/20 μ s)		
Protection level +/-PE (-/PE)	Up	2.6 kV
@ In (8/20 μ s)		

Mechanical Characteristics

Technology		MOV+GDT
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-2
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PV-1000G/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

482393

