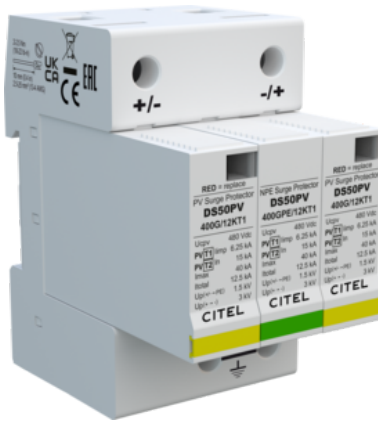




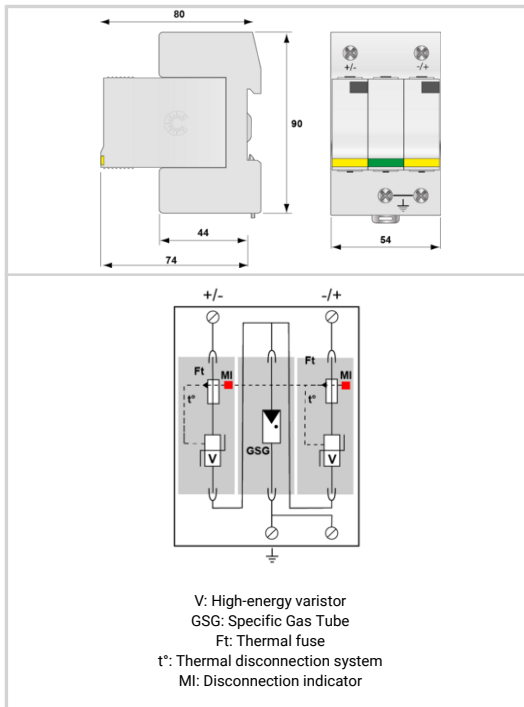
Type 1+2 PV surge protector - 400 Vdc

CITEL

DS50PV-400G/12KT1



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



Electrical Characteristics		
SPD type		1+2
Network		400 Vdc PV power line
Nominal PV voltage	Uocstc	400 Vdc
Max. PV operating voltage	Ucpv	480 Vdc
Residual Current	Ipe	None
Leakage current to Ground		
PV Permanent Operating Current consumption at Ucpv	Icpv	< 0.1 mA
Follow current	If	None
Nominal discharge current	In	15 kA
15 x 8/20 μ s impulses		
Max. discharge current	I _{max}	40 kA
max. withstand @ 8/20 μ s by pole		
Total Maximum discharge current	I _{max} Total	60 kA
max. total withstand @ 8/20 μ s		
Impulse current by pole	I _{limp}	6.25 kA
max. withstand 10/350 μ s by pole		
Total lightning current	I _{total}	12.5 kA
max. total withstand @ 10/350 μ s		
Current withstand short circuit PV	I _{scpv}	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- @ In (8/20 μ s)	Up	3 kV
Protection level +/-PE (-/PE) @ In (8/20 μ s)	Up	1.5 kV
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-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PV-400G/12KT1 + DSM50PV-400GPE/12KT1
Remote signaling of disconnection		Option DS50PVS-400G/12KT1 - output on changeover contact
Dimensions		See diagram
Weight		0.358 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		482932

