



Type 1+2 PV surge protector - 1500 V

CITEL

DS50PV-1500/12KT1



- 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 (option)
- UL1449 ed.5 compliance
- IEC 61643-31, EN 61643-31, EN 50539-11 certified



	Electrical Characteristics	
	SPD type	1+2
<p>V: Varistor Ft: Thermal fuse MI: Mechanical status indicator t*: Thermal system disconnection</p>	Network	PV network 1250 Vdc
	Nominal PV voltage	Uocstc 1250 Vdc
	Max. PV operating voltage	Ucpv 1500 Vdc
	Residual Current	Ipe < 0.3 mA
	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	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 _{imp} 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	Iscpv 15 000 A
	Connection mode(s)	+/-/PE
	Protection mode(s)	Common/Differential mode
	Protection level +/- @ In (8/20 μ s)	Up 5.3 kV
	Protection level +/-PE (-/PE) @ In (8/20 μ s)	Up 5.3 kV
Mechanical Characteristics		
	Technology	MOV
	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	1 mechanical indicator by pole
	Spare module(s)	DSM50PV-1500/12KT1
	Remote signaling of disconnection	Option DS50PVS-1500/12KT1 - output on changeover contact
	Dimensions	See diagram
	Weight	0.475 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		
	482523	

