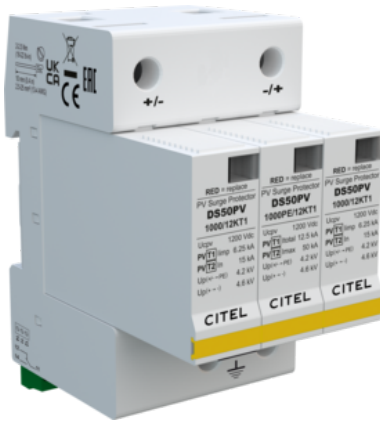


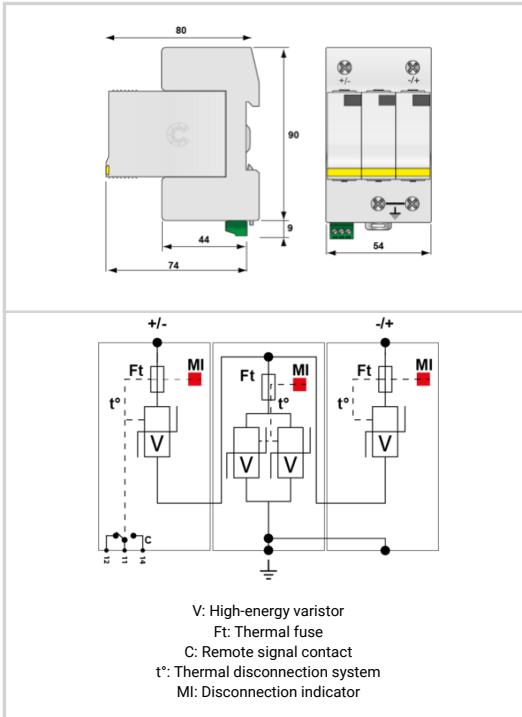


# CITEL

## DS50PVS-1000/12KT1



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



Electrical Characteristics		
SPD type		1+2
Network		PV network 1000 Vdc
Nominal PV voltage		Uocsc 1000 Vdc
Max. PV operating voltage		Ucpv 1200 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 $\mu$ s impulses		
Max. discharge current	Imax	40 kA
max. withstand @ 8/20 $\mu$ s by pole		
Impulse current by pole	Iimp	6.25 kA
max. withstand 10/350 $\mu$ s by pole		
Total lightning current	Itotal	12.5 kA
max. total withstand @ 10/350 $\mu$ 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 $\mu$ s)	Up	4.8 kV
Protection level +/-PE (-/PE) @ In (8/20 $\mu$ s)	Up	4.2 kV
Mechanical Characteristics		
Technology		MOV
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup>
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		3 mechanical indicators
Spare module(s)		DSM50PV-1000/12KT1 + DSM50PV-1000PE/12KT1
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Weight		0.480 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		
482371		

