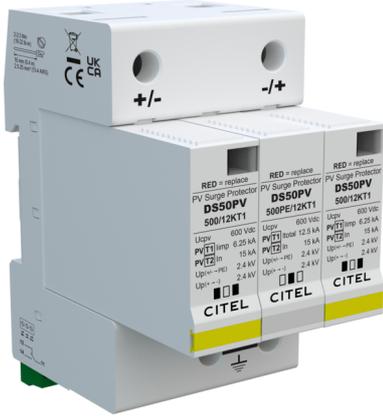
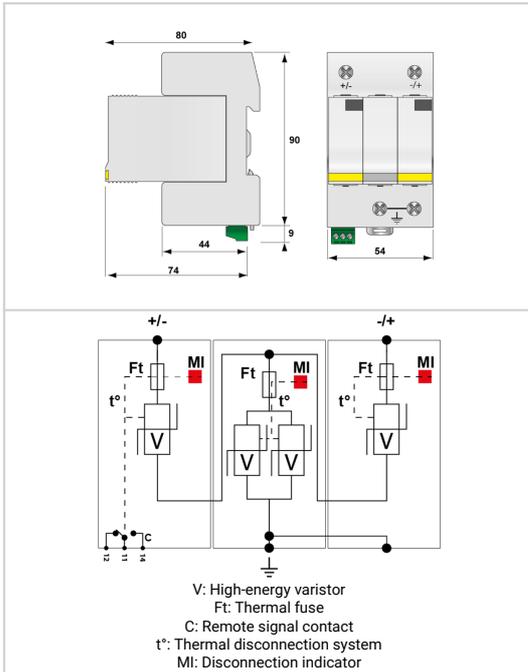


### DS50PVS-500/12KT1



- ✔ Type 1+2 surge protector for Photovoltaic
- ✔ Impulse currents  $I_{imp}/I_{total}$ : 6.25/12.5 kA (10/350 $\mu$ s)
- ✔ Max. discharge current  $I_{max}/I_{max}$  Total: 40/60 kA (8/20 $\mu$ s)
- ✔ 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 500 Vdc	
Nominal PV voltage	Uocstc	500 Vdc	
Max. PV operating voltage	Ucpv	600 Vdc	
Residual Current Leakage current to Ground	Ipe	< 0.2 mA	
PV Permanent Operating current Current consumption at Ucpv	Icpv	< 0.1 mA	
Follow current	If	None	
Nominal discharge current 15 x 8/20 $\mu$ s impulses	In	15 kA	
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	I <sub>max</sub>	40 kA	
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	I <sub>max</sub> Total	60 kA	
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	I <sub>imp</sub>	6.25 kA	
Total lightning current max. total withstand @ 10/350 $\mu$ s	I <sub>total</sub>	12.5 kA	
Current withstand short circuit PV	I <sub>scpv</sub>	15 000 A	
Connection mode(s)		+/-/PE	
Protection mode(s)		Common/Differential mode	
Residual voltage at 5 kA @ 5 kA (8/20 $\mu$ s)	Up-5kA	1.9 kV	
Protection level +/- @ In (8/20 $\mu$ s)	Up	2.4 kV	
Protection level +/-PE (-/PE) @ In (8/20 $\mu$ s)	Up	2.4 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-500/12KT1 + DSM50PV-500PE/12KT1 (central module)	
Remote signaling of disconnection		Output on changeover contact	
Dimensions		See diagram	
Connectors			
Thermal disconnector		Internal	
Back-up protection device		Without	
Standards			
Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5	
Certification			
Part number			
482113			