



## Type 1+2 PV surge protector - 1500 V

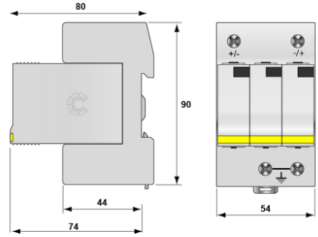
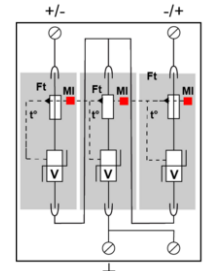
# CITEL

### DS50PV-1500/12KT1



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



	<b>Electrical Characteristics</b>		
	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 Leakage current to Ground	Ipe	< 0.3 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
	Protection level +/- @ In (8/20 $\mu$ s)	Up	5.3 kV
	Protection level +/-PE (-/PE) @ In (8/20 $\mu$ s)	Up	5.3 kV
	<b>Mechanical Characteristics</b>		
	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		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
	<b>Disconnectors</b>		
	Thermal disconnector		Internal
	Back-up protection device		Without
	<b>Standards</b>		
	Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
	Certification		TUV
	<b>Part number</b>		
	482523		

