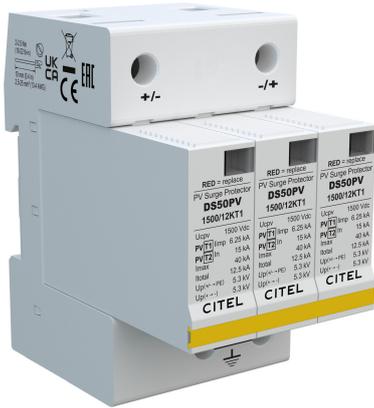




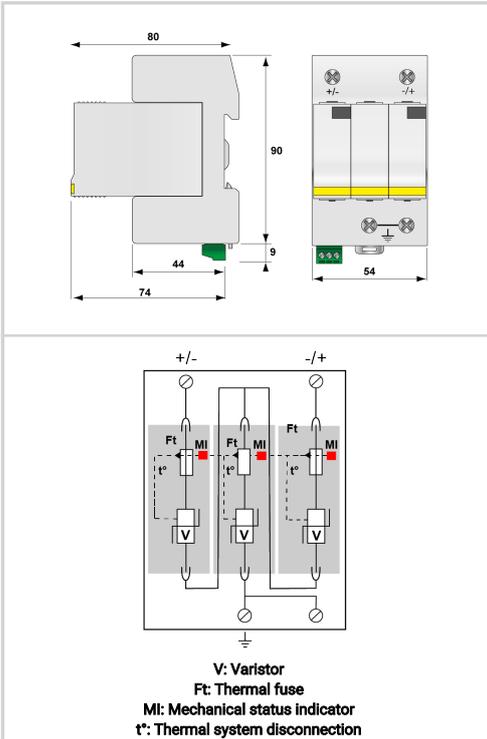
# CITEL

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

### 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



Electrical Characteristics		
SPD type	IEC	1+2
Network		PV 1250 Vdc
Nominal PV voltage	Uocstc	1250 Vdc
Max. PV operating voltage	Ucpv	1500 Vdc
Residual Current <i>Leakage current to Ground</i>	$I_{pe}$	< 0.3 mA
PV Permanent Operating current <i>Current consumption at Ucpv</i>	$I_{cpv}$	< 0.1 mA
Follow current	$I_f$	None
Nominal discharge current <i>15 x 8/20 <math>\mu</math>s impulses</i>	$I_n$	15 kA
Max. discharge current <i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>	$I_{max}$	40 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 <math>\mu</math>s</i>	$I_{max}$ Total	60 kA
Impulse current by pole <i>max. withstand 10/350<math>\mu</math>s by pole</i>	$I_{imp}$	6.25 kA
Total lightning current <i>max. total withstand @ 10/350<math>\mu</math>s</i>	$I_{total}$	12.5 kA
Current withstand short circuit PV	$I_{scpv}$	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- <i>@ <math>I_n</math> (8/20<math>\mu</math>s)</i>	$U_p$	5.3 kV
Protection level +/-PE (-/PE) <i>@ <math>I_n</math> (8/20<math>\mu</math>s)</i>	$U_p$	5.3 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	$T_u$	-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		
<b>482523</b>		

