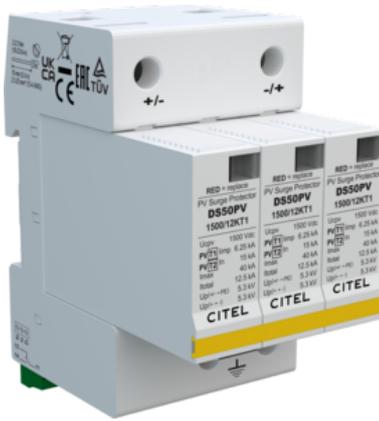




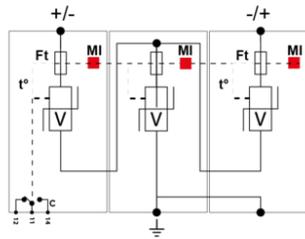
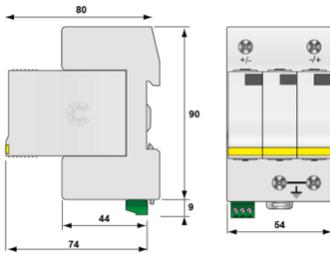
## Type 1+2 PV surge protector - 1500 Vdc

# CITEL

### DS50PVS-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
- IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



V: High-energy varistor  
 Ft: Thermal fuse  
 C: Remote signal contact  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

Electrical Characteristics	
SPD type	1+2
Network	PV network 1250 Vdc
Nominal PV voltage	$U_{ocstc}$ 1250 Vdc
Max. PV operating voltage	$U_{cpv}$ 1500 Vdc
Residual Current Leakage current to Ground	$I_{pe}$ < 0.3 mA
PV Permanent Operating current Current consumption at $U_{cpv}$	$I_{cpv}$ < 0.1 mA
Follow current	$I_f$ None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	$I_n$ 15 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	$I_{max}$ 40 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	$I_{max}$ Total 60 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	$I_{imp}$ 6.25 kA
Total lightning current max. total withstand @ 10/350 $\mu$ s	$I_{total}$ 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 +/-PE (-/PE) @ $I_n$ (8/20 $\mu$ s)	$U_p$ 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	3 mechanical indicators
Spare module(s)	DSM50PV-1500/12KT1
Remote signaling of disconnection	Output on changeover contact
Dimensions	See diagram
Weight	0.477 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	
482573	

