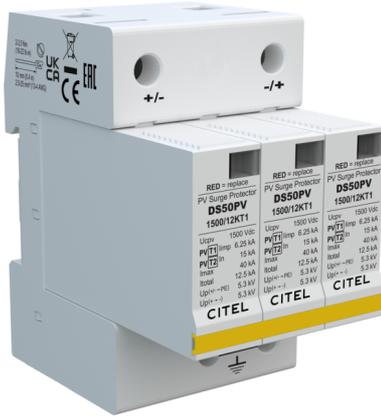
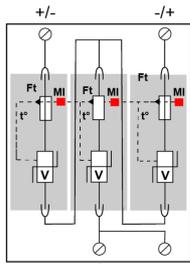
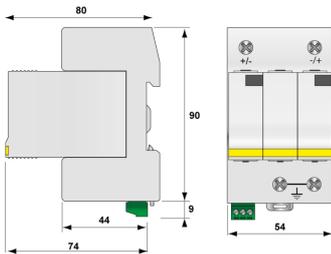


### DS50PV-1500/12KT1



- ✦ 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



V: Varistor  
Ft: Thermal fuse  
MI: Mechanical status indicator  
t\*: Thermal system disconnection

#### 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 Leakage current to Ground	I <sub>pe</sub>	< 0.3 mA
PV Permanent Operating current Current consumption at Ucpv	I <sub>cpv</sub>	< 0.1 mA
Follow current	I <sub>f</sub>	None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	I <sub>n</sub>	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 Total</sub>	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 +/- @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	5.3 kV
Protection level +/-PE (-/PE) @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	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 <sub>u</sub>	-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

#### 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

482523