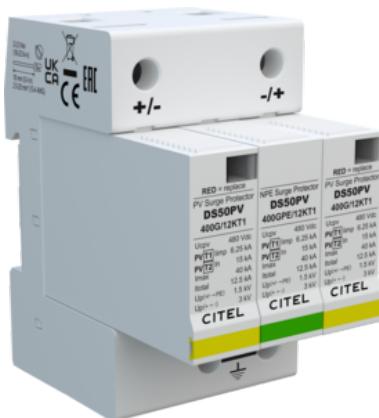




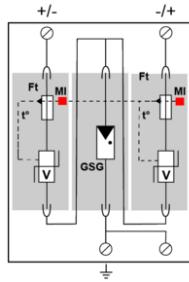
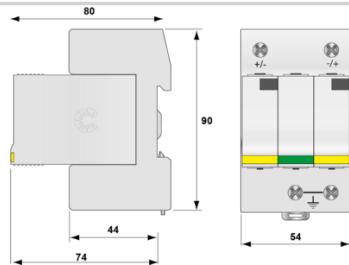
Type 1+2 PV surge protector - 400 Vdc

CITEL

DS50PV-400G/12KT1



- Type 1+2 surge protector for Photovoltaic
- Impulse currents Iimp/Itotal : 6.25/12.5 kA (10/350μs)
- Common/Differential mode protection
- Remote signaling (option)
- IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



V: High-energy varistor
GSG: Specific Gas Tube
Ft: Thermal fuse
t°: Thermal disconnection system
MI: Disconnection indicator

Electrical Characteristics

SPD type	1+2	
Network	400 Vdc PV power line	
Nominal PV voltage	Uocstc	400 Vdc
Max. PV operating voltage	Ucpv	480 Vdc
Residual Current <i>Leakage current to Ground</i>	Ipe	None
PV Permanent Operating current <i>Current consumption at Ucpv</i>	Icpv	< 0.1 mA
Follow current	If	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	15 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	40 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i>	Imax Total	60 kA
Impulse current by pole <i>max. withstand 10/350μs by pole</i>	Iimp	6.25 kA
Total lightning current <i>max. total withstand @ 10/350μs</i>	Itotal	12.5 kA
Current withstand short circuit PV	Iscpv	15 000 A
Connection mode(s)	+/-/PE	
Protection mode(s)	Common/Differential mode	
Protection level +/- @ In (8/20μs)	Up	3 kV
Protection level +/PE (-/PE) @ In (8/20μs)	Up	1.5 kV

Mechanical Characteristics

Technology	MOV+GDT	
Connection to Network	By screw terminals: 2.5-25mm ²	
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	2 mechanical indicators	
Spare module(s)	DSM50PV-400G/12KT1 + DSM50PVS-400G/12KT1	
Remote signaling of disconnection	Option DS50PVS-400G/12KT1 - output on changeover contact	
Dimensions	See diagram	
Weight	0.358 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	
Part number	482932	

