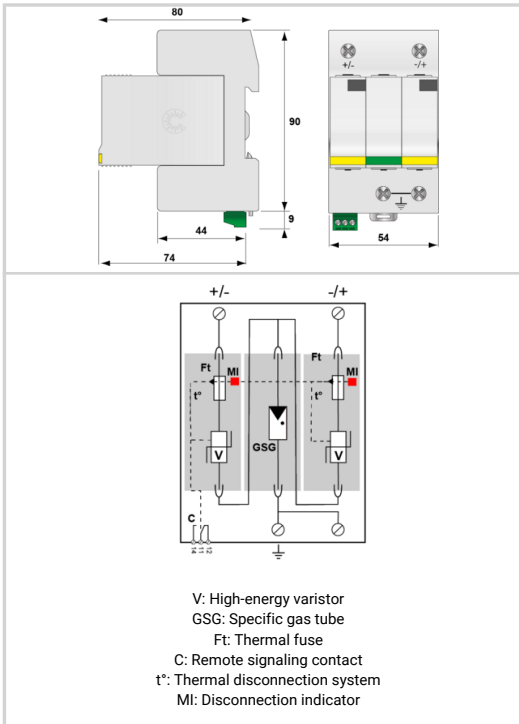


# DS50PVS-1000G/12KT1



- ↳ 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
- ↳ EN 61643-31/ EN 50539-11 compliance



Electrical Characteristics	
SPD type (following IEC tests)	1+2
Network	PV network 1000 Vdc
Nominal PV voltage	Uocsc 1000 Vdc
Max. PV operating voltage	Ucpv 1200 Vdc
Residual Current (Leakage current to Ground)	Ipe None
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 4.6 kV
Protection level +/-PE (-/PE)(@ In (8/20 $\mu$ s))	Up 2.6 kV
Mechanical Characteristics	
Technology	MOV+GDT
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-2
Operating temperature	Tu -40/+85°C
Protection rating	IP20
Outdoor application	No
Disconnection indicator	2 mechanical indicators
Spare module(s)	DSM50PV-1000G/12KT1
Remote signaling of disconnection	Output on changeover contact
Dimensions	See diagram
Weight	0.396 kg
Disconnectors	
Thermal disconnector	Internal
Fuses	Without
Standards	
Standards compliance	IEC 61643-31 / EN 61643-31 / EN 50539-11
Part number	
482393	

