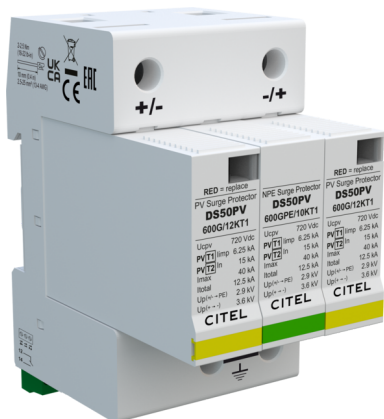
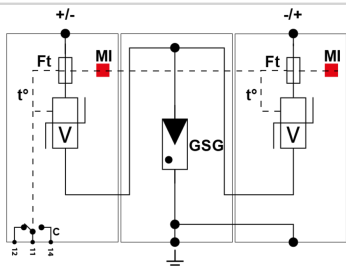
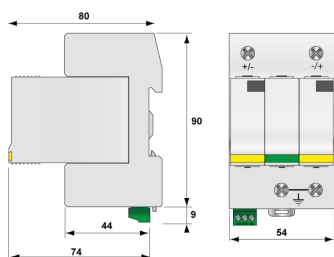


DS50PVS-600G/12KT1



- ✦ Type 1+2 surge protector for Photovoltaic
- ✦ Impulse currents I_{imp}/I_{total} : 6.25/12.5 kA (10/350 μ s)
- ✦ Common/Differential mode protection
- ✦ Remote signaling
- ✦ IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



Electrical Characteristics

SPD type	IEC	1+2
Network		PV 500 Vdc
Nominal PV voltage	U_{ocstc}	600 Vdc
Max. PV operating voltage	U_{cpv}	720 Vdc
Residual Current Leakage current to Ground	I_{pe}	None
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 μ s impulses	I_n	15 kA
Max. discharge current max. withstand @ 8/20 μ s by pole	I_{max}	40 kA
Total Maximum discharge current max. total withstand @ 8/20 μ s	I_{max} Total	60 kA
Impulse current by pole max. withstand 10/350 μ s by pole	I_{imp}	6.25 kA
Total lightning current max. total withstand @ 10/350 μ 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 +/- @ I_n (8/20 μ s)	U_p	3.6 kV
Protection level +/-PE (-/PE) @ I_n (8/20 μ s)	U_p	2.9 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-2
Operating temperature	T_u	-40/+85°C
Protection rating		IP20
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PVS-600G/12KT1 + DSM50PVS-600GPE/12KT1
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Weight		0.328 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
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Part number

482443