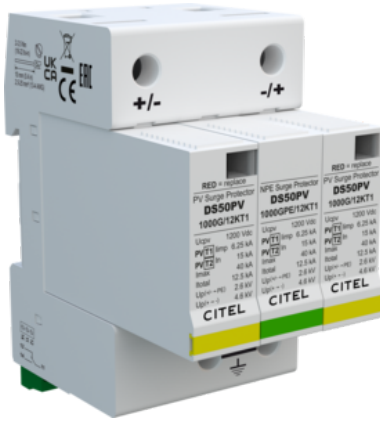




Type 1+2 PV surge protector

CITEL

DS50PVS-1000G/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																																																				
<p>V: High-energy varistor GSG: Specific gas tube Ft: Thermal fuse C: Remote signaling contact t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tr><td>SPD type</td><td></td><td>1+2</td></tr> <tr><td>Network</td><td></td><td>PV network 1000 Vdc</td></tr> <tr><td>Nominal PV voltage</td><td>Uocstc</td><td>1000 Vdc</td></tr> <tr><td>Max. PV operating voltage</td><td>Ucpv</td><td>1200 Vdc</td></tr> <tr><td>Residual Current Leakage current to Ground</td><td>Ipe</td><td>None</td></tr> <tr><td>PV Permanent Operating Current consumption at Ucpv</td><td>Icpv</td><td>< 0.1 mA</td></tr> <tr><td>Follow current</td><td>If</td><td>None</td></tr> <tr><td>Nominal discharge current 15 x 8/20 μs impulses</td><td>In</td><td>15 kA</td></tr> <tr><td>Max. discharge current max. withstand @ 8/20 μs by pole</td><td>I_{max}</td><td>40 kA</td></tr> <tr><td>Total Maximum discharge current max. total withstand @ 8/20 μs</td><td>I_{max} Total</td><td>60 kA</td></tr> <tr><td>Impulse current by pole max. withstand 10/350μs by pole</td><td>I_{imp}</td><td>6.25 kA</td></tr> <tr><td>Total lightning current max. total withstand @ 10/350μs</td><td>I_{total}</td><td>12.5 kA</td></tr> <tr><td>Current withstand short circuit PV</td><td>I_{scpv}</td><td>15 000 A</td></tr> <tr><td>Connection mode(s)</td><td></td><td>+/-/PE</td></tr> <tr><td>Protection mode(s)</td><td></td><td>Common/Differential mode</td></tr> <tr><td>Protection level +/- @ In (8/20μs)</td><td>U_p</td><td>4.6 kV</td></tr> <tr><td>Protection level +/-PE (-/PE) @ In (8/20μs)</td><td>U_p</td><td>2.6 kV</td></tr> </table>		SPD type		1+2	Network		PV network 1000 Vdc	Nominal PV voltage	Uocstc	1000 Vdc	Max. PV operating voltage	Ucpv	1200 Vdc	Residual Current Leakage current to Ground	Ipe	None	PV Permanent Operating Current consumption at Ucpv	Icpv	< 0.1 mA	Follow current	If	None	Nominal discharge current 15 x 8/20 μ s impulses	In	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 +/- @ In (8/20 μ s)	U _p	4.6 kV	Protection level +/-PE (-/PE) @ In (8/20 μ s)	U _p	2.6 kV
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