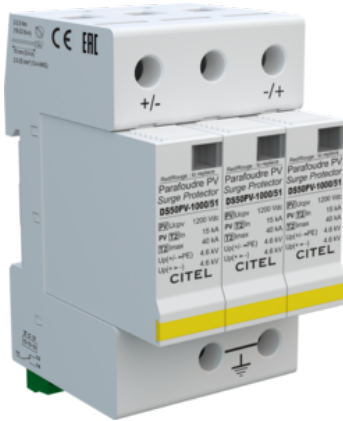




## Type 2 PV surge protector

# CITEL

## DS50PVS-1000/51



- Type 2 surge protector for PV
- In : 15kA / I<sub>max</sub> : 40kA
- Pluggable
- Remote signaling
- UL1149 ed.5 certified
- IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance



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<p>V: High-energy varistor Ft: Thermal fuse C: Remote signal contact t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tr><td>SPD type</td><td></td><td>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</td><td></td><td></td></tr> <tr><td>Leakage current to Ground</td><td>I<sub>pe</sub></td><td>&lt; 0.1 mA</td></tr> <tr><td>PV Permanent Operating current</td><td>I<sub>cpv</sub></td><td>&lt; 0.1 mA</td></tr> <tr><td>Current consumption at Ucpv</td><td></td><td></td></tr> <tr><td>Follow current</td><td>I<sub>f</sub></td><td>None</td></tr> <tr><td>Nominal discharge current</td><td>I<sub>n</sub></td><td>15 kA</td></tr> <tr><td>15 x 8/20 μs impulses</td><td></td><td></td></tr> <tr><td>Max. discharge current</td><td></td><td></td></tr> <tr><td>max. withstand @ 8/20 μs by pole</td><td>I<sub>max</sub></td><td>40 kA</td></tr> <tr><td>Total Maximum discharge current</td><td></td><td></td></tr> <tr><td>max. total withstand @ 8/20 μs</td><td>I<sub>max Total</sub></td><td>60 kA</td></tr> <tr><td>Current withstand short circuit PV</td><td>I<sub>scpv</sub></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 +/- @ I<sub>n</sub> (8/20μs)</td><td>U<sub>p</sub></td><td>4.6 kV</td></tr> </table>	SPD type		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	I <sub>pe</sub>	< 0.1 mA	PV Permanent Operating current	I <sub>cpv</sub>	< 0.1 mA	Current consumption at Ucpv			Follow current	I <sub>f</sub>	None	Nominal discharge current	I <sub>n</sub>	15 kA	15 x 8/20 μs impulses			Max. discharge current			max. withstand @ 8/20 μs by pole	I <sub>max</sub>	40 kA	Total Maximum discharge current			max. total withstand @ 8/20 μs	I <sub>max Total</sub>	60 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> (8/20μs)	U <sub>p</sub>	4.6 kV	<table border="1"> <tr><td colspan="3"><b>Mechanical Characteristics</b></td></tr> <tr><td>Technology</td><td></td><td>MOV</td></tr> <tr><td>Connection to Network</td><td></td><td>By screw terminals: 2.5-25mm<sup>2</sup> / by bus</td></tr> <tr><td>Format</td><td></td><td>Plug-in modular box</td></tr> <tr><td>Mounting</td><td></td><td>Symmetrical rail 35 mm (EN 60715)</td></tr> <tr><td>Housing material</td><td></td><td>Thermoplastic UL94 V-0</td></tr> <tr><td>Operating temperature</td><td>T<sub>u</sub></td><td>-40/+85°C</td></tr> <tr><td>Protection rating</td><td></td><td>IP20</td></tr> <tr><td>Failsafe mode</td><td></td><td>Disconnection SPD of the PV line</td></tr> <tr><td>Disconnection indicator</td><td></td><td>3 mechanical indicators</td></tr> <tr><td>Spare module(s)</td><td></td><td>DSM50PV-1000/51</td></tr> <tr><td>Remote signaling of disconnection</td><td></td><td>Output on changeover contact</td></tr> <tr><td>Dimensions</td><td></td><td>See diagram</td></tr> <tr><td>Weight</td><td></td><td>0.320 kg</td></tr> </table>	<b>Mechanical Characteristics</b>			Technology		MOV	Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> / by bus	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	Failsafe mode		Disconnection SPD of the PV line	Disconnection indicator		3 mechanical indicators	Spare module(s)		DSM50PV-1000/51	Remote signaling of disconnection		Output on changeover contact	Dimensions		See diagram	Weight		0.320 kg
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