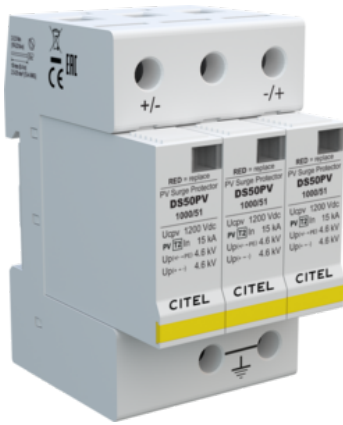




Type 2 PV surge protector

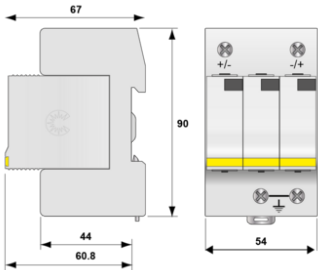
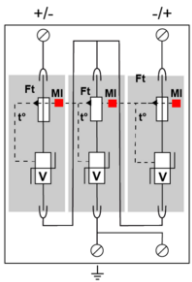
CITEL

DS50PV-1000/51



- Type 2 surge protector for PV
- In : 15kA / I_{max} : 40kA
- Pluggable
- Remote signaling (option)
- EN 61643-31 / EN 50539-11 compliant



	Electrical Characteristics																																																															
 <p>V: High-energy varistor Ft: Thermal fuse t*: Thermal disconnection system MI: Disconnection indicator</p>	<table border="1"> <tbody> <tr><td>SPD type</td><td>2</td></tr> <tr><td>Network</td><td>PV network 1000 Vdc</td></tr> <tr><td>Nominal PV voltage</td><td>U_{ocstc} 1000 Vdc</td></tr> <tr><td>Max. PV operating voltage</td><td>U_{cpv} 1200 Vdc</td></tr> <tr><td>Residual Current</td><td>I_{pe} < 0.1 mA</td></tr> <tr><td>Leakage current to Ground</td><td>I_{pe} < 0.1 mA</td></tr> <tr><td>PV Permanent Operating current</td><td>I_{cpv} < 0.1 mA</td></tr> <tr><td>Current consumption at U_{cpv}</td><td></td></tr> <tr><td>Follow current</td><td>I_f None</td></tr> <tr><td>Nominal discharge current</td><td>I_n 15 kA</td></tr> <tr><td>15 x 8/20 μs impulses</td><td></td></tr> <tr><td>Max. discharge current</td><td>I_{max} 40 kA</td></tr> <tr><td>max. withstand @ 8/20 μs by pole</td><td></td></tr> <tr><td>Current withstand short circuit PV</td><td>I_{scpv} 15 000 A</td></tr> <tr><td>Connection mode(s)</td><td>+/-/PE</td></tr> <tr><td>Protection mode(s)</td><td>Common/Differential mode</td></tr> <tr><td>Protection level +/-/PE (-/PE) @ I_n (8/20μs)</td><td>U_p 4.6 kV</td></tr> </tbody> </table>	SPD type	2	Network	PV network 1000 Vdc	Nominal PV voltage	U _{ocstc} 1000 Vdc	Max. PV operating voltage	U _{cpv} 1200 Vdc	Residual Current	I _{pe} < 0.1 mA	Leakage current to Ground	I _{pe} < 0.1 mA	PV Permanent Operating current	I _{cpv} < 0.1 mA	Current consumption at U _{cpv}		Follow current	I _f None	Nominal discharge current	I _n 15 kA	15 x 8/20 μs impulses		Max. discharge current	I _{max} 40 kA	max. withstand @ 8/20 μs by pole		Current withstand short circuit PV	I _{scpv} 15 000 A	Connection mode(s)	+/-/PE	Protection mode(s)	Common/Differential mode	Protection level +/-/PE (-/PE) @ I _n (8/20μs)	U _p 4.6 kV	<table border="1"> <tbody> <tr><td colspan="2">Mechanical Characteristics</td></tr> <tr><td>Technology</td><td>MOV</td></tr> <tr><td>Connection to Network</td><td>By screw terminals: 2.5-25mm²</td></tr> <tr><td>Format</td><td>Plug-in modular box</td></tr> <tr><td>Mounting</td><td>Symmetrical rail 35 mm (EN 60715)</td></tr> <tr><td>Housing material</td><td>Thermoplastic UL94 V-0</td></tr> <tr><td>Operating temperature</td><td>T_u -40/+85°C</td></tr> <tr><td>Protection rating</td><td>IP20</td></tr> <tr><td>Failsafe mode</td><td>Disconnection SPD of the PV line</td></tr> <tr><td>Disconnection indicator</td><td>1 mechanical indicator by pole</td></tr> <tr><td>Spare module(s)</td><td>DSM50PV-1000/51</td></tr> <tr><td>Remote signaling of disconnection</td><td>Option DS50PVS-1000/51 output change over contact</td></tr> <tr><td>Dimensions</td><td>See diagram</td></tr> <tr><td>Weight</td><td>0.318 kg</td></tr> </tbody> </table>	Mechanical Characteristics		Technology	MOV	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	T _u -40/+85°C	Protection rating	IP20	Failsafe mode	Disconnection SPD of the PV line	Disconnection indicator	1 mechanical indicator by pole	Spare module(s)	DSM50PV-1000/51	Remote signaling of disconnection	Option DS50PVS-1000/51 output change over contact	Dimensions	See diagram	Weight	0.318 kg
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