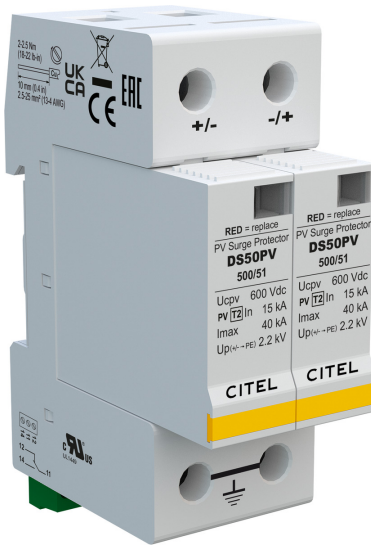




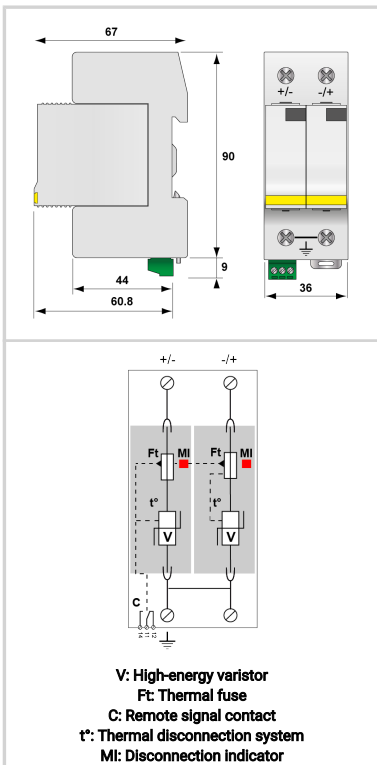
# CITEL

## Type 2 PV surge protector

### DS50PVS-500/51



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



| Electrical Characteristics   |                        |  |
|--|------------------------|--|
| SPD type   | IEC                    | 2  |
| Network  |                        | PV 500 Vdc   |
| Nominal PV voltage   | Uocstc                 | 500 Vdc  |
| Max. PV operating voltage  | Ucpv                   | 600 Vdc  |
| Residual Current<br><i>Leakage current to Ground</i>                     | I <sub>pe</sub>        | < 0.2 mA   |
| PV Permanent Operating current<br><i>Current consumption at Ucpv</i>     | I <sub>cpv</sub>       | < 0.1 mA   |
| Follow current   | I <sub>f</sub>         | None   |
| Nominal discharge current<br><i>15 x 8/20 μs impulses</i>                | I <sub>n</sub>         | 15 kA  |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>        | I <sub>max</sub>       | 40 kA  |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 μs</i> | 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 mode  |
| Protection level +/-PE (-/PE)<br><i>@ I<sub>n</sub> (8/20μs)</i>         | U <sub>p</sub>         | 2.2 kV   |
| Mechanical Characteristics   |                        |  |
| 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  |                        | 2 mechanical indicators                                |
| Spare module(s)  |                        | DSM50PV-500/51   |
| Remote signaling of disconnection  |                        | Output on changeover contact                           |
| Dimensions   |                        | See diagram  |
| Disconnectors  |                        |  |
| Thermal disconnector   |                        | Internal   |
| Back-up protection device  |                        | Without  |
| Standards  |                        |  |
| Standards compliance   |                        | IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5 |
| Part number  |                        |  |
| 480171   |                        |  |

