



Type 1+2 PV surge protector - 1500 V

CITEL

DS50PV-1500/12KT1



- 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 (option)
- UL1449 ed.5 compliance
- IEC 61643-31, EN 61643-31, EN 50539-11 certified



| | | |
|--|--|--|
| | Electrical Characteristics | |
| | SPD type | 1+2 |
| <p>V: Varistor Ft: Thermal fuse MI: Mechanical status indicator t*: Thermal system disconnection</p> | Network | PV network 1250 Vdc |
| | Nominal PV voltage | Uocstc 1250 Vdc |
| | Max. PV operating voltage | Ucpv 1500 Vdc |
| | Residual Current Leakage current to Ground | Ipe < 0.3 mA |
| | PV Permanent Operating current 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 | Iscpv 15 000 A |
| | Connection mode(s) | +/-/PE |
| | Protection mode(s) | Common/Differential mode |
| | Protection level +/- @ In (8/20 μ s) | Up 5.3 kV |
| | Protection level +/-PE (-/PE) @ In (8/20 μ s) | Up 5.3 kV |
| | 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 | Tu -40/+85°C |
| | Protection rating | IP20 |
| | Disconnection indicator | 1 mechanical indicator by pole |
| | Spare module(s) | DSM50PV-1500/12KT1 |
| | Remote signaling of disconnection | Option DS50PVS-1500/12KT1 - output on changeover contact |
| | Dimensions | See diagram |
| | Weight | 0.475 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 |
| | Certification | TUV |
| | Part number | |
| | 482523 | |

