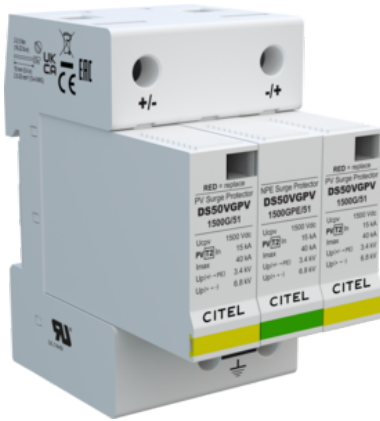




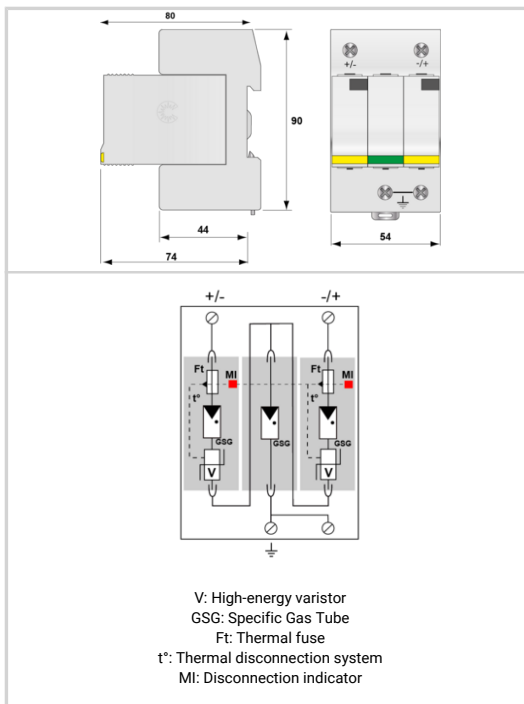
## Type 2 PV surge protector

# CITEL

## DS50VGPV-1500G/51



- Type 2 surge protector for photovoltaic
- VG technology
- 1500 Vdc
- No leakage, no operating currents
- Improved life expectancy
- In/Imax : 15 / 40 kA
- Common/Differential mode protection
- Remote signaling (option)
- IEC 61643-31, EN 61643-31, EN 50539-11 compliance
- UL1449 ed.5 certified



| Electrical Characteristics                  |            |                                                          |
|---------------------------------------------|------------|----------------------------------------------------------|
| SPD type                                    |            | 2                                                        |
| Network                                     |            | PV network 1250 Vdc                                      |
| Nominal PV voltage                          | Uocstc     | 1250 Vdc                                                 |
| Max. PV operating voltage                   | Ucpv       | 1500 Vdc                                                 |
| Residual Current                            | Ipe        | None                                                     |
| Leakage current to Ground                   |            |                                                          |
| PV Permanent Operating current              | Icpv       | None                                                     |
| Current consumption at Ucpv                 |            |                                                          |
| Follow current                              | If         | None                                                     |
| Nominal discharge current                   | In         | 15 kA                                                    |
| 15 x 8/20 μs impulses                       |            |                                                          |
| Max. discharge current                      | Imax       | 40 kA                                                    |
| max. withstand @ 8/20 μs by pole            |            |                                                          |
| Total Maximum discharge current             | Imax Total | 60 kA                                                    |
| max. total withstand @ 8/20 μs              |            |                                                          |
| Current withstand short circuit PV          | Iscpv      | 15 000 A                                                 |
| Connection mode(s)                          |            | +/-/PE                                                   |
| Protection mode(s)                          |            | Common/Differential mode                                 |
| Protection level +/- @ In (8/20μs)          | Up         | 6.8 kV                                                   |
| Protection level +/-PE (-/PE) @ In (8/20μs) | Up         | 3.4 kV                                                   |
| Mechanical Characteristics                  |            |                                                          |
| Technology                                  |            | VG Technology (MOV+GSG)                                  |
| Connection to Network                       |            | By screw terminals: 2.5-25mm <sup>2</sup>                |
| 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                                                     |
| Failsafe mode                               |            | Disconnection SPD of the PV line                         |
| Disconnection indicator                     |            | 2 mechanical indicators                                  |
| Spare module(s)                             |            | DSM50VGPV-1500G/51                                       |
| Remote signaling of disconnection           |            | Option DS50VGPVS-1500G/51 - 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   |
| Certification                               |            | UL                                                       |
| Part number                                 |            | 481501                                                   |

