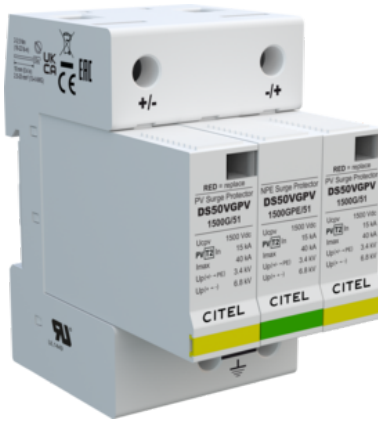
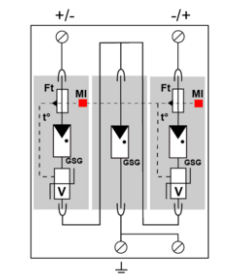
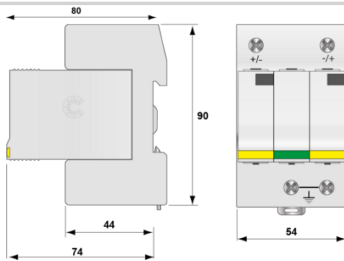


### DS50VGPV-1500G/51



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



V: High-energy varistor  
GSG: Specific Gas Tube  
Ft: Thermal fuse  
t\*: Thermal disconnection system  
MI: Disconnection indicator

#### 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                                     |                 |                          |
| Leakage current to Ground                            | Ipe             | None                     |
| PV Permanent Operating current                       | Icpv            | None                     |
| Current consumption at Ucpv                          |                 |                          |
| Follow current                                       | If              | None                     |
| Nominal discharge current                            | $I_n$           | 15 kA                    |
| 15 x 8/20 $\mu$ s impulses                           |                 |                          |
| Max. discharge current                               | $I_{max}$       | 40 kA                    |
| max. withstand @ 8/20 $\mu$ s by pole                |                 |                          |
| Total Maximum discharge current                      | $I_{max}$ Total | 60 kA                    |
| max. total withstand @ 8/20 $\mu$ s                  |                 |                          |
| Current withstand short circuit PV                   | Iscpv           | 15 000 A                 |
| Connection mode(s)                                   |                 | +/-/PE                   |
| Protection mode(s)                                   |                 | Common/Differential mode |
| Protection level +/- @ $I_n$ (8/20 $\mu$ s)          | Up              | 6.8 kV                   |
| Protection level +/-PE (-/PE) @ $I_n$ (8/20 $\mu$ s) | 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