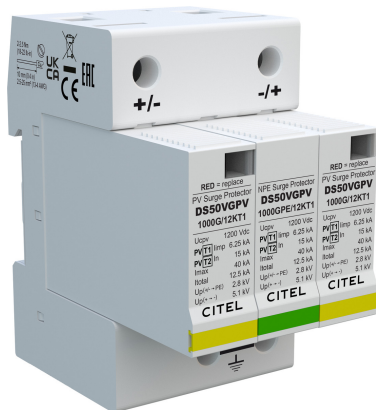




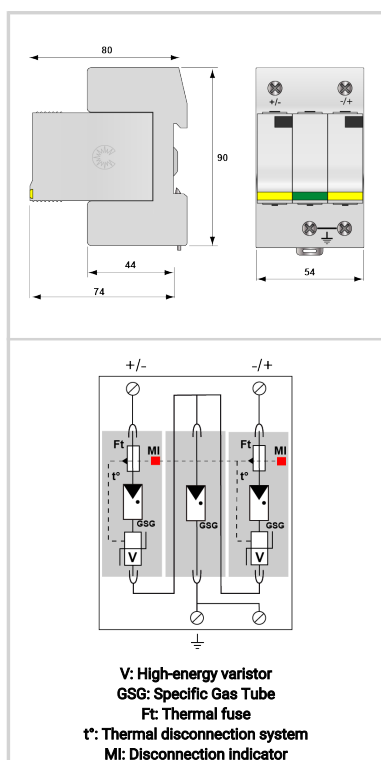
# CITEL

## Type 1+2 PV surge protector

### DS50VGPV-1000G/12KT1



- Type 1+2 surge protector for Photovoltaic
- VG Technology
- No leakage, no operating currents
- Improved life expectancy
- Impulse currents  $I_{imp}/I_{total}$ : 6.25/12.5 kA (10/350 $\mu$ s)
- Common/Differential mode protection
- Pluggable module
- Remote signaling (option)
- UL1449 ed.5 compliance
- IEC 61643-31, EN 61643-31 certified



#### Electrical Characteristics

|                                                                        |                        |                          |
|------------------------------------------------------------------------|------------------------|--------------------------|
| SPD type                                                               | IEC                    | 1+2                      |
| Network                                                                |                        | PV network 1000 Vdc      |
| Nominal PV voltage                                                     | Uocsc                  | 1000 Vdc                 |
| Max. PV operating voltage                                              | Ucpv                   | 1200 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<br>15 x 8/20 $\mu$ s impulses                | In                     | 15 kA                    |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole        | I <sub>max</sub>       | 40 kA                    |
| Total Maximum discharge current<br>max. total withstand @ 8/20 $\mu$ s | I <sub>max</sub> Total | 60 kA                    |
| Impulse current by pole<br>max. withstand 10/350 $\mu$ s by pole       | I <sub>imp</sub>       | 6.25 kA                  |
| Total lightning current<br>max. total withstand @ 10/350 $\mu$ s       | I <sub>total</sub>     | 12.5 kA                  |
| Current withstand short circuit PV                                     | Iscpv                  | 15 000 A                 |
| Protection mode(s)                                                     |                        | Common/Differential mode |
| Protection level +/-<br>@ In (8/20 $\mu$ s)                            | Up                     | 5.1 kV                   |
| Protection level +/-PE (-/PE)<br>@ In (8/20 $\mu$ s)                   | Up                     | 2.8 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                                                        |
| Disconnection indicator           |    | 2 mechanical indicators                                     |
| Spare module(s)                   |    | DSM50VGPV-1000G/12KT1 / DSM50VGPV-1000GPE/12KT1             |
| Remote signaling of disconnection |    | Option DS50VGPVS-1000G/12KT1 - 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        |  |                                                        |

#### Part number

482303

