



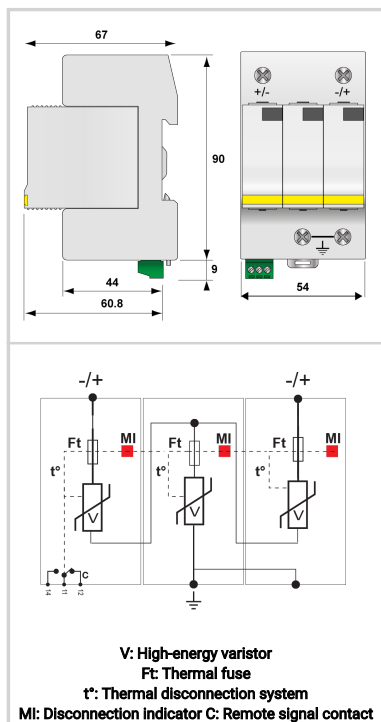
# CITEL



## Type 2 PV surge protector

### DS50PVS-1000/30

- ▶ Type 2 surge protector for PV
- ▶ In: 20kA / I<sub>max</sub>: 40kA
- ▶ Pluggable
- ▶ Remote signaling
- ▶ UL 1449 ed.5 compliance
- ▶ IEC 61643-31, EN 61643-31, EN 50539-11 certified



#### Electrical Characteristics

|                                                                           |                        |                     |
|---------------------------------------------------------------------------|------------------------|---------------------|
| SPD type                                                                  | IEC                    | 2                   |
| Network                                                                   |                        | PV network 1000 Vdc |
| Nominal PV voltage                                                        | U <sub>ocstc</sub>     | 1000 Vdc            |
| Max. PV operating voltage                                                 | U <sub>cpv</sub>       | 1300 Vdc            |
| Residual Current<br>Leakage current to Ground                             | I <sub>pe</sub>        | < 0.2 mA            |
| PV Permanent Operating current<br>Current consumption at U <sub>cpv</sub> | I <sub>cpv</sub>       | < 0.1 mA            |
| Follow current                                                            | I <sub>f</sub>         | None                |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                   | I <sub>n</sub>         | 20 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               |
| Current withstand short circuit PV                                        | I <sub>scpv</sub>      | 15 000 A            |
| Connection mode(s)                                                        |                        | +/-/PE              |
| Protection level<br>@ I <sub>n</sub> (8/20 $\mu$ s)                       | U <sub>p</sub>         | 4.0 kV              |

#### Mechanical Characteristics

|                                   |                |                                           |
|-----------------------------------|----------------|-------------------------------------------|
| Technology                        |                | MOV                                       |
| Connection to Network             |                | By screw terminals: 2.5-25mm <sup>2</sup> |
| Operating temperature             | T <sub>u</sub> | -40/+85°C                                 |
| Protection rating                 |                | IP20                                      |
| Failsafe mode                     |                | Disconnection SPD of the PV line          |
| Disconnection indicator           |                | 3 mechanical indicators                   |
| 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 |
| Certification        |  | TUV Süd                                                |

#### Part number

48031110

