



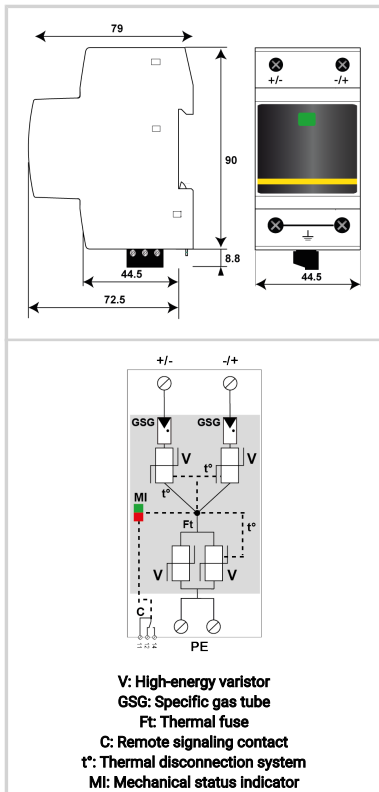
# CITEL

## Type 2+3 PV surge protector - VG and CTC Technology

### DPVN40CVGS-21Y-850



- Type 2+3 surge protector for Photovoltaic
- CTC Technology
- VG Technology
- Discharge currents  $I_{max}/I_{total}$ : 40/60 kA (8/20 $\mu$ s)
- Common/Differential mode protection
- Remote signaling
- IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance
- Certified EN 61643-31 and IEC 61643-31



#### Electrical Characteristics

|  |                        |                          |
|--|------------------------|--------------------------|
| SPD type   | IEC                    | 2+3                      |
| Network  |                        | PV 710 Vdc               |
| Nominal PV voltage   | Uocstc                 | 710 Vdc                  |
| Max. PV operating voltage  | Ucpv                   | 850 Vdc                  |
| Residual Current<br><i>Leakage current to Ground</i>   | Ipe                    | None                     |
| PV Permanent Operating current<br><i>Current consumption at Ucpv</i>   | Icpv                   | None                     |
| Follow current   | If                     | None                     |
| Nominal discharge current<br><i>15 x 8/20 <math>\mu</math>s impulses</i>   | In                     | 20 kA                    |
| Max. discharge current<br><i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>   | I <sub>max</sub>       | 40 kA                    |
| Total Maximum discharge current<br><i>max. total withstand @ 8/20 <math>\mu</math>s</i>                                  | I <sub>max</sub> Total | 60 kA                    |
| Withstand on Combination waveform IEC 61643-11<br><i>Class III test: 1.2/50<math>\mu</math>s - 8/20<math>\mu</math>s</i> | Uoc                    | 6 kV                     |
| Current withstand short circuit PV   | Iscpv                  | 15 000 A                 |
| Connection mode(s)   |                        | +/-/PE                   |
| Protection mode(s)   |                        | Common/Differential mode |
| Protection level +/-<br><i>@ In (8/20<math>\mu</math>s)</i>  | Up                     | 3.3 kV                   |
| Protection level +/-PE (-/PE)<br><i>@ In (8/20<math>\mu</math>s)</i>   | Up                     | 3.3 kV                   |
| Protection level at 5 kA<br><i>@ 5 kA (8/20<math>\mu</math>s)</i>  | Up                     | 2,6 kV                   |
| Protection level at Uoc<br><i>@ Uoc (1.2/50 <math>\mu</math>s)</i>   | Up                     | 2,3 kV                   |

#### Mechanical Characteristics

|                                   |    |   |
|-----------------------------------|----|---|
| Technology                        |    | VG Technology (MOV+GSG)   |
| Connection to Network             |    | By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> ) / by bus |
| Format                            |    | Compact monobloc 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                     |    | All pole disconnection from PV network                                  |
| Disconnection indicator           |    | 1 mechanical indicator - Red/Green                                      |
| Remote signaling of disconnection |    | Output on changeover contact  |
| Dimensions                        |    | See diagram - 2.5TE (EN43880)   |

#### Disconnectors

|                           |  |                           |
|---------------------------|--|---------------------------|
| Thermal disconnector      |  | CTC Technology integrated |
| Back-up protection device |  | Without                   |

#### Standards

|                      |  |  |
|----------------------|--|--|
| Standards compliance |  | IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5 |
| Certification        |  | KEMA   |

#### Part number

65122104

