



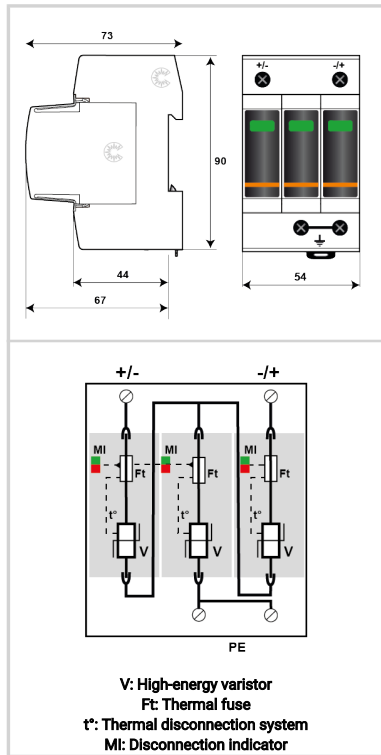
# CITEL



## DC power surge protector

### DDC50-21Y-1500

- DC power Type 2 SPD
- For Energy Storage/EV Charging
- In/Imax: 20/50 kA
- Pluggable modules
- Remote signaling (option)
- prIEC 61643-41 compliance



#### Electrical Characteristics

|                                                                  |       |           |
|------------------------------------------------------------------|-------|-----------|
| SPD type                                                         | IEC   | 2         |
| Nominal DC voltage                                               | Un-dc | 1200 Vdc  |
| Max. DC operating voltage                                        | Uc    | 1500 Vdc  |
| Residual Current<br>Leakage current to Ground                    | Ipe   | < 0.2 mA  |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses          | In    | 20 kA     |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole  | Imax  | 50 kA     |
| Impulse current by pole<br>max. withstand 10/350 $\mu$ s by pole | Iimp  | 4 kA      |
| Protection level +/-<br>@ In (8/20 $\mu$ s)                      | Up    | 5.1 kV    |
| Protection level +/-PE (-/PE)<br>@ In (8/20 $\mu$ s)             | Up    | 5.1 kV    |
| Admissible short-circuit current                                 | Iscrr | 100 000 A |

#### Mechanical Characteristics

|                                   |                                                                       |
|-----------------------------------|-----------------------------------------------------------------------|
| Connection to Network             | By screw terminals: 2.5-25 mm <sup>2</sup> (35 mm <sup>2</sup> rigid) |
| 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 from DC network                                         |
| Disconnection indicator           | 1 mechanical indicator by pole - Red/Green                            |
| Spare module(s)                   | MDDC50-1500                                                           |
| Remote signaling of disconnection | option DDC50S-21Y-1500: output on changeover contact                  |
| Dimensions                        | See diagram - 3 TE (EN43880)                                          |

#### Disconnectors

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Thermal disconnector      | Internal                                                                                             |
| Back-up protection device | Fuse assembly: SFD50S-10-1500DC /or 50 A min. (Iscrr 100 kA) - 125 A max. (Iscrr 50 kA) - gBat Fuses |

#### Standards

|                      |                              |
|----------------------|------------------------------|
| Standards compliance | prIEC 61443-41 - IEC61643-11 |
|----------------------|------------------------------|

#### Part number

828511653

