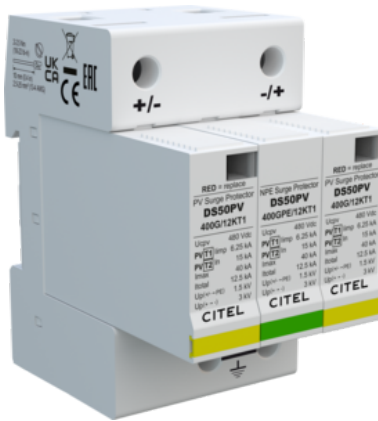
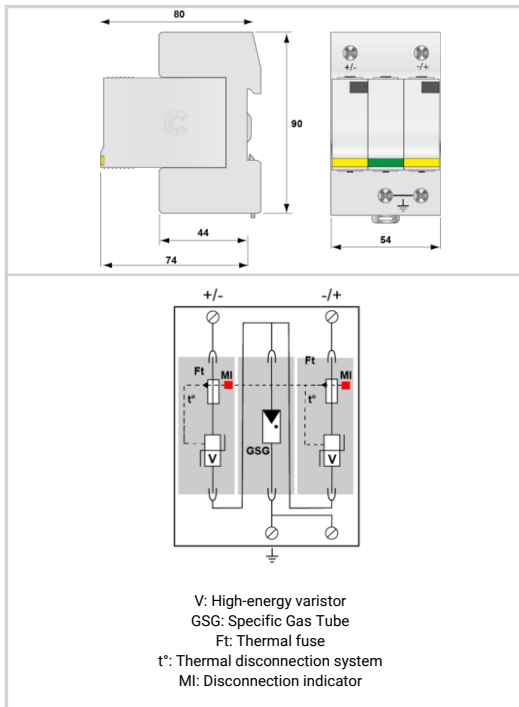


## DS50PV-400G/12KT1



- Type 1+2 surge protector for Photovoltaic
- Impulse currents  $I_{imp}/I_{total}$  : 6.25/12.5 kA (10/350 $\mu$ s)
- Common/Differential mode protection
- Remote signaling (option)
- IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



| Electrical Characteristics                                             |                        |                                                          |
|------------------------------------------------------------------------|------------------------|----------------------------------------------------------|
| SPD type                                                               |                        | 1+2                                                      |
| Network                                                                |                        | 400 Vdc PV power line                                    |
| Nominal PV voltage                                                     | Uocsc                  | 400 Vdc                                                  |
| Max. PV operating voltage                                              | Ucpv                   | 480 Vdc                                                  |
| Residual Current<br>Leakage current to Ground                          | Ipe                    | None                                                     |
| PV Permanent Operating current<br>Current consumption at Ucpv          | Icpv                   | < 0.1 mA                                                 |
| 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                                                 |
| Connection mode(s)                                                     |                        | +/-/PE                                                   |
| Protection mode(s)                                                     |                        | Common/Differential mode                                 |
| Protection level +/-<br>@ In (8/20 $\mu$ s)                            | Up                     | 3 kV                                                     |
| Protection level +/-PE (-/PE)<br>@ In (8/20 $\mu$ s)                   | Up                     | 1.5 kV                                                   |
| Mechanical Characteristics                                             |                        |                                                          |
| Technology                                                             |                        | MOV+GDT                                                  |
| 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)                                                        |                        | DSM50PV-400G/12KT1 + DSM50PV-400GPE/12KT1                |
| Remote signaling of disconnection                                      |                        | Option DS50PVS-400G/12KT1 - output on changeover contact |
| Dimensions                                                             |                        | See diagram                                              |
| Weight                                                                 |                        | 0.358 kg                                                 |
| Disconnectors                                                          |                        |                                                          |
| Thermal disconnector                                                   |                        | Internal                                                 |
| Back-up protection device                                              |                        | Without                                                  |
| Standards                                                              |                        |                                                          |
| Standards compliance                                                   |                        | IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5   |
| Part number                                                            |                        |                                                          |
| 482932                                                                 |                        |                                                          |