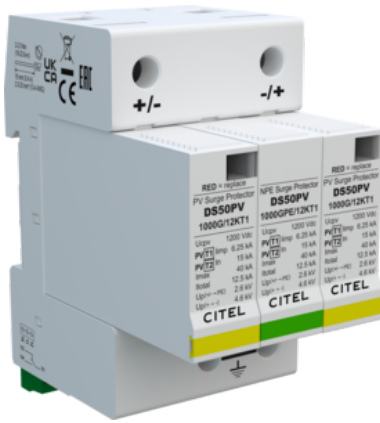




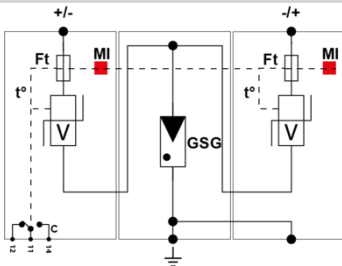
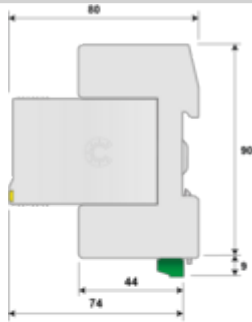
Type 1+2 PV surge protector

CITEL

DS50PVS-1000G/12KT1



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



V: High-energy varistor
 GSG: Specific gas tube
 Ft: Thermal fuse
 C: Remote signaling contact
 t*: Thermal disconnection system
 MI: Disconnection indicator

| Electrical Characteristics | |
|--|--|
| SPD type | 1+2 |
| Network | PV network 1000 Vdc |
| Nominal PV voltage | Uocstc 1000 Vdc |
| Max. PV operating voltage | Ucpv 1200 Vdc |
| Residual Current Leakage current to Ground | Ipe None |
| PV Permanent Operating Current Current consumption at Ucpv | Icpv < 0.1 mA |
| Follow current | If None |
| Nominal discharge current 15 x 8/20 μ s impulses | In 15 kA |
| Max. discharge current max. withstand @ 8/20 μ s by pole | I _{max} 40 kA |
| Total Maximum discharge current max. total withstand @ 8/20 μ s | I _{max} Total 60 kA |
| Impulse current by pole max. withstand 10/350 μ s by pole | I _{imp} 6.25 kA |
| Total lightning current max. total withstand @ 10/350 μ s | I _{total} 12.5 kA |
| Current withstand short circuit PV | I _{scpv} 15 000 A |
| Connection mode(s) | +/-/PE |
| Protection mode(s) | Common/Differential mode |
| Protection level +/- @ In (8/20 μ s) | Up 4.6 kV |
| Protection level +/-PE (-/PE) @ In (8/20 μ s) | Up 2.6 kV |
| Mechanical Characteristics | |
| Technology | MOV+GDT |
| Connection to Network | By screw terminals: 2.5-25mm ² |
| Format | Plug-in modular box |
| Mounting | Symmetrical rail 35 mm (EN 60715) |
| Housing material | Thermoplastic UL94 V-2 |
| Operating temperature | Tu -40/+85°C |
| Protection rating | IP20 |
| Disconnection indicator | 2 mechanical indicators |
| Spare module(s) | DSM50PV-1000G/12KT1 |
| Remote signaling of disconnection | Output on changeover contact |
| Dimensions | See diagram |
| Weight | 0.396 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 |
| Certification | TUV |
| Part number | |
| 482393 | |

