



- ✦ Type 1+2 surge protector for Photovoltaic
- ✦ VG Technology
- ✦ No leakage, no operating currents
- ✦ Improved life expectancy
- ✦ Impulse currents limp/ltotal: 6.25/12.5 kA (10/350µs)
- ✦ Common/Differential mode protection
- ✦ Pluggable module
- ✦ Remote signaling (option)
- ✦ UL1449 ed.5 compliance
- ✦ IEC 61643-31, EN 61643-31 certified



| Electrical Characteristics | | | |
|--|------------------------|--|--|
| SPD type | IEC | | 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 | | None |
| Follow current | If | | None |
| Nominal discharge current 15 x 8/20 µs impulses | In | | 15 kA |
| Max. discharge current max. withstand @ 8/20 µs by pole | I _{max} | | 40 kA |
| Total Maximum discharge current max. total withstand @ 8/20 µs | I _{max} Total | | 60 kA |
| Impulse current by pole max. withstand 10/350µs by pole | I _{imp} | | 6.25 kA |
| Total lightning current max. total withstand @ 10/350µs | I _{total} | | 12.5 kA |
| Current withstand short circuit PV | I _{scpv} | | 15 000 A |
| Protection mode(s) | | | Common/Differential mode |
| Protection level +/- @ In (8/20µs) | Up | | 5.8 kV |
| Protection level +/-PE (-/PE) @ In (8/20µs) | Up | | 4.5 kV |
| Mechanical Characteristics | | | |
| Technology | | | VG Technology (MOV+GSG) |
| 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-0 |
| Operating temperature | Tu | | -40/+85°C |
| Protection rating | | | IP20 |
| Disconnection indicator | | | 3 mechanical indicators |
| Spare module(s) | | | DSM50VGPV-1000/12KT1 + DSM50VGPV-1000PE/12KT1 |
| Remote signaling of disconnection | | | Option DS50VGPVS-1000/12KT1 - 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 |
| Part number | | | |
| 485323 | | | |