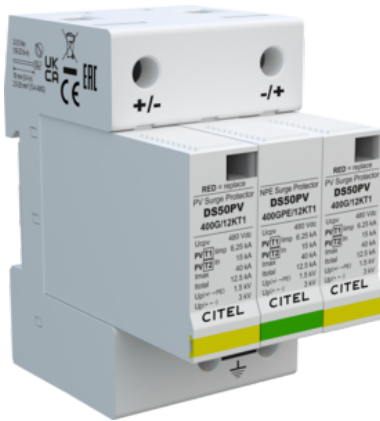




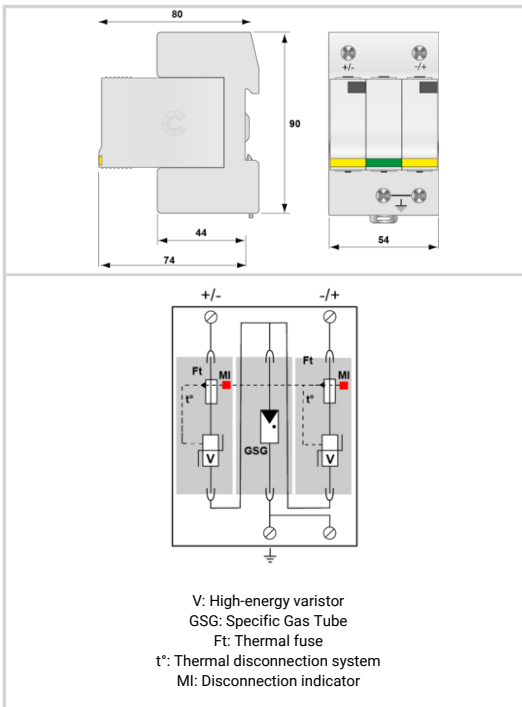
Type 1+2 PV surge protector - 400 Vdc

CITEL

DS50PV-400G/12KT1



- ↳ Type 1+2 surge protector for Photovoltaic
- ↳ Impulse currents I_{limp}/I_{total} : 6.25/12.5 kA (10/350 μ 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 | IEC | 1+2 |
| Network | | 400 Vdc PV power line |
| Nominal PV voltage | Uocstc | 400 Vdc |
| Max. PV operating voltage | Ucpv | 480 Vdc |
| Residual Current | Ipe | None |
| Leakage current to Ground | | |
| PV Permanent Operating Current consumption at Ucpv | Icpv | < 0.1 mA |
| Follow current | If | None |
| Nominal discharge current | In | 15 kA |
| 15 x 8/20 μ s impulses | | |
| Max. discharge current | I _{max} | 40 kA |
| max. withstand @ 8/20 μ s by pole | | |
| Total Maximum discharge current | I _{max} Total | 60 kA |
| max. total withstand @ 8/20 μ s | | |
| Impulse current by pole | I _{limp} | 6.25 kA |
| max. withstand 10/350 μ s by pole | | |
| Total lightning current | I _{total} | 12.5 kA |
| max. total withstand @ 10/350 μ s | | |
| 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 | 3 kV |
| Protection level +/-PE (-/PE) @ In (8/20 μ s) | Up | 1.5 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-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 |

