



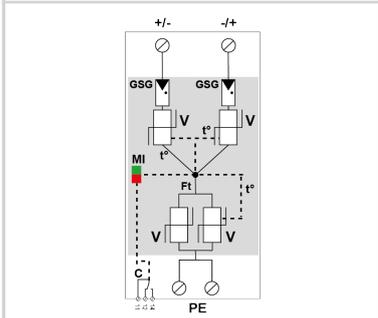
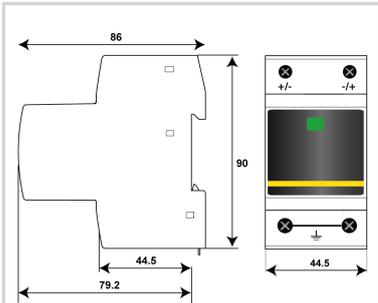
CITEL

Type 1+2+3 PV surge protector - CTC Technology

DPVN1-6CVG-21Y-1500



- ▶ Type 1+2+3 surge protector for Photovoltaic
- ▶ CTC Technology
- ▶ VG Technology
- ▶ Impulse currents I_{imp}/I_{total} : 6.25/12.5 kA (10/350 μ s)
- ▶ Common/Differential mode protection
- ▶ IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance
- ▶ Certified EN 61643-31 and IEC 61643-31



V: High-energy varistor
GSG: Specific Gas Tube
Ft: Thermal fuse
t*: Thermal disconnection system
MI: Mechanical status indicator

Electrical Characteristics

| | | |
|---|------------------------|--------------------------|
| SPD type | IEC | 1+2+3 |
| Network | | PV 1250 Vdc |
| Nominal PV voltage | Uocstc | 1250 Vdc |
| Max. PV operating voltage | Ucpv | 1500 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 μ s impulses | In | 20 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 |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 μ s - 8/20 μ s | Uoc | 6 kV |
| Current withstand short circuit PV | Iscpv | 15 000 A |
| Connection mode(s) | | +/-/PE |
| Protection mode(s) | | Common/Differential mode |
| Protection level +/- @ In (8/20 μ s) | Up | 4.8 kV |
| Protection level +/-PE (-/PE) @ In (8/20 μ s) | Up | 4.8 kV |
| Protection level at 5 kA @ 5 kA (8/20 μ s) | Up | 4,3 kV |

Mechanical Characteristics

| | | |
|-----------------------------------|----|---|
| Technology | | VG Technology (MOV+GSG) |
| Connection to Network | | By screw terminals: 2.5-25mm ² (35mm ²) / by bus |
| Format | | Compact monobloc box |
| Mounting | | Symmetrical rail 35 mm (EN 60715) |
| Housing material | | Thermoplastic UL94 V-0 |
| Operating temperature | Tu | -40/+85°C |
| Protection rating | | IP20 |
| Failsafe mode | | All pole disconnection from PV network |
| Disconnection indicator | | 1 mechanical indicator - Red/Green |
| Remote signaling of disconnection | | Option DPVN1-6CVGS-21Y-1500 - output on changeover contact |
| Dimensions | | See diagram - 2.5TE (EN43880) |

Disconnectors

| | | |
|---------------------------|--|---------------------------|
| Thermal disconnector | | CTC Technology integrated |
| Back-up protection device | | Without |

Standards

| | | |
|----------------------|--|--|
| Standards compliance | | IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5 |
| Certification | | KEMA |

Part number

65221103

