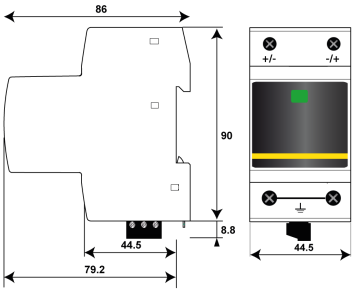
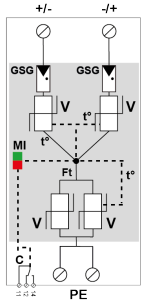
Type 1+2+3 PV surge protector - CTC Technology

DPVN1-6CVGS-21Y-600

- Type 1+2+3 surge protector for Photovoltaic
- CTC Technology
- VG Technology
- Impulse currents Iimp/Itotal: 6.25/12.5 kA (10/350µs)
- Common/Differential mode protection
- Remote signaling
- 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
C: Remote signaling contact
t°: Thermal disconnection system
MI: Mechanical status indicator

Electrical Characteristics		
SPD type	IEC	1+2+3
Network		PV 500 Vdc
Nominal PV voltage	Uocstc	500 Vdc
Max. PV operating voltage	Ucpv	600 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	20 kA
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	40 kA
Total Maximum discharge current *max. total withstand @ 8/20 µs*	Imax Total	60 kA
Impulse current by pole *max. withstand 10/350µs by pole*	Iimp	6.25 kA
Total lightning current *max. total withstand @ 10/350µs*	Itotal	12.5 kA
Withstand on Combination waveform IEC 61643-11 *Class III test: 1.2/50µs - 8/20µs*	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 (8/20µs)*	Up	2.3 kV
Protection level +/PE (-/PE) *@ In (8/20µs)*	Up	2.3 kV
Protection level at 5 kA *@ 5 kA (8/20µs)*	Up	1,9 kV
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
Connection to Network		By screw terminals: 2.5-25mm² (35mm²) / 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		Output on changeover contact
Max. Voltage/Current for remote signaling		250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions		See diagram - 2.5TE (EN43880)
Weight		0.360 kg
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		
65222101		