



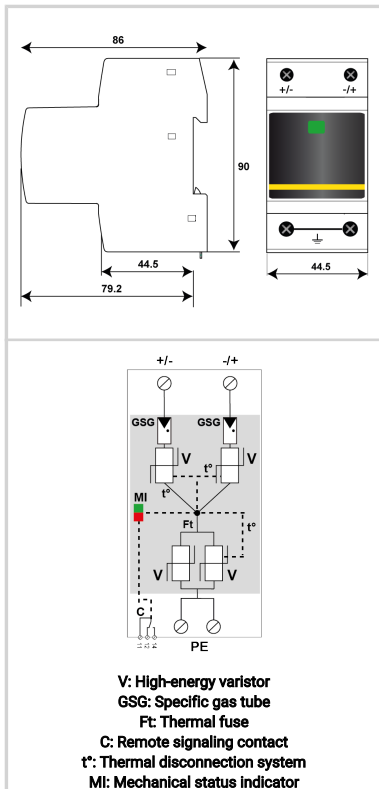
# CITEL

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

### DPVN1-6CVG-21Y-850



- ▶ 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 $\mu$ 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



Electrical Characteristics		
SPD type	IEC	1+2+3
Network		PV 710 Vdc
Nominal PV voltage	Uocstc	710 Vdc
Max. PV operating voltage	Ucpv	850 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 $\mu$ s impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	Imax	40 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	Imax Total	60 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	Iimp	6.25 kA
Total lightning current max. total withstand @ 10/350 $\mu$ s	Itotal	12.5 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ 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 $\mu$ s)	Up	3.3 kV
Protection level +/-PE (-/PE) @ In (8/20 $\mu$ s)	Up	3.3 kV
Protection level at 5 kA @ 5 kA (8/20 $\mu$ s)	Up	2,6 kV
Mechanical Characteristics		
Technology		VG Technology (MOV+GSG)
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> ) / 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
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		
<b>65221104</b>		

