



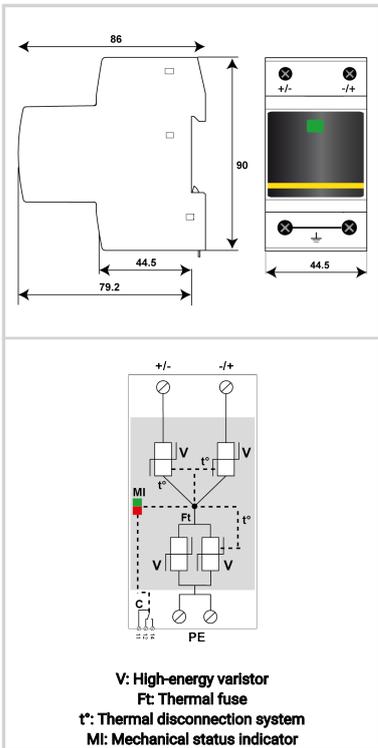
# CITEL

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

### DPVN1-6C-21Y-600



- ▶ Type 1+2+3 surge protector for Photovoltaic
- ▶ CTC 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 500 Vdc
Nominal PV voltage	Uocstc	500 Vdc
Max. PV operating voltage	Ucpv	600 Vdc
Residual Current Leakage current to Ground	Ipe	< 0.2 mA
PV Permanent Operating current Current consumption at Ucpv	Icpv	< 0.1 mA
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	I <sub>max</sub>	40 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	I <sub>max</sub> Total	60 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	I <sub>imp</sub>	6.25 kA
Total lightning current max. total withstand @ 10/350 $\mu$ s	I <sub>total</sub>	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 +/- @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	2.3 kV
Protection level +/-PE (-/PE) @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	2.3 kV
Protection level at 5 kA @ 5 kA (8/20 $\mu$ s)	U <sub>p</sub>	1.9 kV

#### Mechanical Characteristics

Technology		MOV
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		Option DPVN1-6CS-21Y-600 - 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
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#### Part number

65211101

