



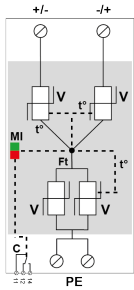
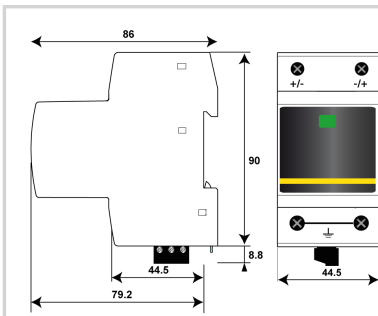
# CITEL

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

### DPVN1-6CS-21Y-1500



- ▶ Combined SPD type 1+2+3
- ▶ CTC-Technology
- ▶ Discharge capacity per pole: Iimp/total= 6.25/12.5 kA (10/350 μs); In/total= 15/60 kA (8 /20 μs)
- ▶ Safe disconnecting device
- ▶ Fault-resistant Y-circuit
- ▶ Remote signaling
- ▶ Complies with the IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 and UTE C 61-740-51 standards
- ▶ Certified EN 61643-31 and IEC 61643-31



**V:** High-energy varistor  
**Ft:** Thermal fuse  
**C:** Remote signal contact  
**t\*:** Thermal disconnection system  
**MI:** Mechanical disconnection 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	< 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 μs impulses	In	20 kA
Max. discharge current max. withstand @ 8/20 μs by pole	I <sub>max</sub>	40 kA
Total Maximum discharge current max. total withstand @ 8/20 μs	I <sub>max</sub> Total	60 kA
Impulse current by pole max. withstand 10/350μs by pole	I <sub>imp</sub>	6.25 kA
Total lightning current max. total withstand @ 10/350μs	I <sub>total</sub>	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	I <sub>scpv</sub>	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- @ In (8/20μs)	Up	4.8 kV
Protection level +/-PE (-/PE) @ In (8/20μs)	Up	4.8 kV
Protection level at 5 kA @ 5 kA (8/20μs)	Up	4,3 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		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		0.500 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

65212103
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