



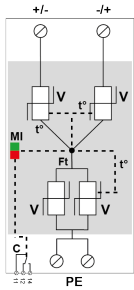
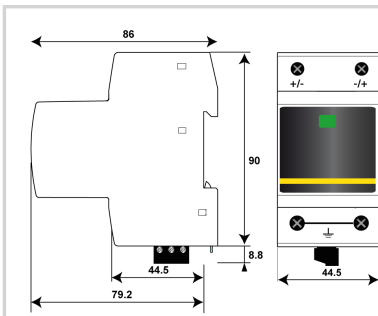
# CITEL

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

### DPVN1-6CS-21Y-850



- ▶ Combined SPD type 1+2+3
- ▶ CTC-Technology
- ▶ Discharge capacity per pole: limp/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 710 Vdc
Nominal PV voltage	Uocstc	710 Vdc
Max. PV operating voltage	Ucpv	850 Vdc
Residual Current		
Leakage current to Ground	Ipe	< 0.2 mA
PV Permanent Operating current	Icpv	< 0.1 mA
Current consumption at Ucpv		
Follow current	If	None
Nominal discharge current	In	20 kA
15 x 8/20 μs impulses		
Max. discharge current		
max. withstand @ 8/20 μs by pole	Imax	40 kA
Total Maximum discharge current	Imax Total	60 kA
max. total withstand @ 8/20 μs		
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 +/-	Up	3.3 kV
@ In (8/20μs)		
Protection level +/-PE (-/PE)	Up	3.3 kV
@ In (8/20μs)		
Protection level at 5 kA	Up	2,6 kV
@ 5 kA (8/20μs)		

#### 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
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

65212104

