



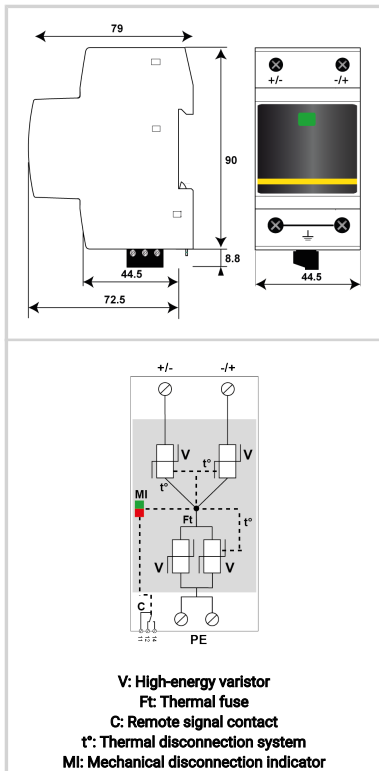
# CITEL

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

### DPVN40CS-21Y-850



- Type 2+3 surge protector for Photovoltaic
- CTC Technology
- Discharge currents  $I_{max}/I_{total}$ : 40/60 kA (8/20 $\mu$ s)
- 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



#### Electrical Characteristics

SPD type	IEC	2+3
Network		PV 710 Vdc
Nominal PV voltage	Uocstc	710 Vdc
Max. PV operating voltage	Ucpv	850 Vdc
Residual Current <i>Leakage current to Ground</i>	Ipe	< 0.2 mA
PV Permanent Operating current <i>Current consumption at Ucpv</i>	Icpv	< 0.1 mA
Follow current	If	None
Nominal discharge current <i>15 x 8/20 <math>\mu</math>s impulses</i>	In	20 kA
Max. discharge current <i>max. withstand @ 8/20 <math>\mu</math>s by pole</i>	I <sub>max</sub>	40 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 <math>\mu</math>s</i>	I <sub>max</sub> Total	60 kA
Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50<math>\mu</math>s - 8/20<math>\mu</math>s</i>	Uoc	6 kV
Current withstand short circuit PV	Iscpv	15 000 A
Connection mode(s)		+/-/PE
Protection level +/- <i>@ In (8/20<math>\mu</math>s)</i>	Up	3.3 kV
Protection level +/-PE (-/PE) <i>@ In (8/20<math>\mu</math>s)</i>	Up	3.0 kV
Protection level at 5 kA <i>@ 5 kA (8/20<math>\mu</math>s)</i>	Up	2.6 kV
Protection level at Uoc <i>@ Uoc (1.2/50 <math>\mu</math>s)</i>	Up	2.3 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
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
Environmental standards		EU RoHS

#### Part number

65112104

