



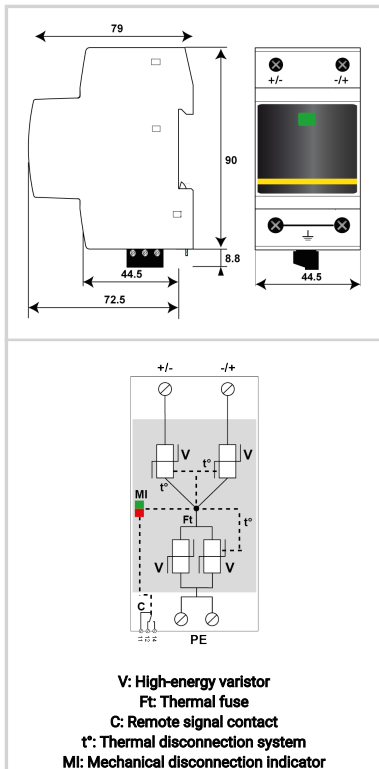
# CITEL

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

### DPVN40CS-21Y-600



- 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 500 Vdc	
Nominal PV voltage	Uocstc	500 Vdc	
Max. PV operating voltage	Ucpv	600 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 Total</sub>	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	2.3 kV	
Protection level +/-PE (-/PE) <i>@ In (8/20<math>\mu</math>s)</i>	Up	2.1 kV	
Protection level at 5 kA <i>@ 5 kA (8/20<math>\mu</math>s)</i>	Up	1.8 kV	
Protection level at Uoc <i>@ Uoc (1.2/50 <math>\mu</math>s)</i>	Up	1,6 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		0.220 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	
Environmental standards		EU RoHS	
Part number			
<b>65112101</b>			

