



**NEW CITEL PV SPD**

- › Type 1+2+3 surge protector for Photovoltaic
- › CTC Technology
- › VG Technology
- › Impulse currents  $I_{imp}/I_{total}$ : 6.25/12.5 kA (10/350 $\mu$ s)
- › Common/Differential mode protection
- › Remote signaling
- › IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance



**Electrical Characteristics**

SPD type		1+2+3
Network		PV 1200 Vdc
Nominal PV voltage	Uocstc	1000 Vdc
Max. PV operating voltage	Ucpv	1200 Vdc
Residual Current		
Leakage current to Ground	I <sub>pe</sub>	None
PV Permanent Operating current	I <sub>cpv</sub>	None
Current consumption at Ucpv		
Follow current	I <sub>f</sub>	None
Nominal discharge current	I <sub>n</sub>	20 kA
15 x 8/20 $\mu$ s impulses		
Max. discharge current	I <sub>max</sub>	40 kA
max. withstand @ 8/20 $\mu$ s by pole		
Total Maximum discharge current	I <sub>max Total</sub>	60 kA
max. total withstand @ 8/20 $\mu$ s		
Impulse current by pole	I <sub>imp</sub>	6.25 kA
max. withstand 10/350 $\mu$ s by pole		
Total lightning current	I <sub>total</sub>	12.5 kA
max. total withstand @ 10/350 $\mu$ s		
Withstand on Combination waveform IEC 61643-11		
Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s	U <sub>oc</sub>	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 +/-	U <sub>p</sub>	4.3 kV
@ I <sub>n</sub> (8/20 $\mu$ s)		
Protection level +/-PE (-/PE)	U <sub>p</sub>	4.3 kV
@ I <sub>n</sub> (8/20 $\mu$ s)		

**Mechanical Characteristics**

Technology		VG Technology (MOV+GSG)
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	T <sub>u</sub>	-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 DPVN1-6CVGS-21Y-1200 - output on changeover contact
Dimensions		See diagram - 2.5TE (EN43880)

**Disconnectors**

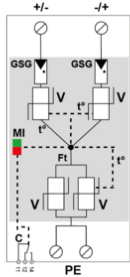
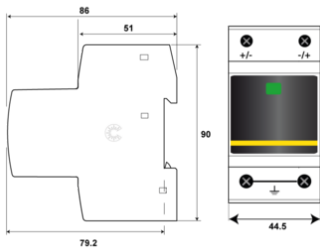
Thermal disconnector		CTC Technology integrated
Back-up protection device		Without

**Standards**

Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
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**Part number**

65221102



V: High-energy varistor  
 GSG: Specific Gas Tube  
 Ft: Thermal fuse  
 t\*: Thermal disconnection system  
 MI: Mechanical status indicator

