



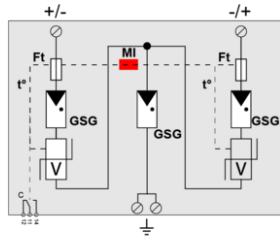
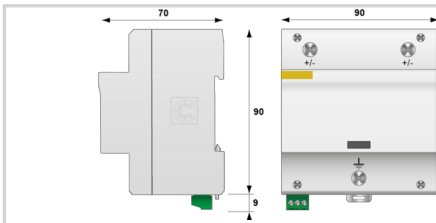
## Type 1+2 PV surge protector - 1500 Vdc

# CITEL

### DS60VGPV-600G/51



- Type 1+2 surge protector for photovoltaic
- VG technology
- 600 Vdc
- No leakage, no operating currents
- Improved life expectancy
- Iimp: 12.5 kA/pole
- Common/Differential mode protection
- Remote signaling
- IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance



V: High-energy varistor  
 GSG: Specific gas tube  
 Ft: Thermal fuse  
 C: Remote signaling contact  
 t\*: Thermal disconnection system  
 MI: Disconnection indicator

#### Electrical Characteristics

SPD type		1+2
Network		PV 600 Vdc
Nominal PV voltage	Uocstc	600 Vdc
Max. PV operating voltage	Ucpv	720 Vdc
Residual Current	Ipe	None
Leakage current to Ground		
PV Permanent Operating current	Icpv	None
Current consumption at Ucpv		
Follow current	If	None
Nominal discharge current	In	20 kA
15 x 8/20 $\mu$ s impulses		
Max. discharge current	Imax	40 kA
max. withstand @ 8/20 $\mu$ s by pole		
Impulse current by pole	Iimp	12.5 kA
max. withstand 10/350 $\mu$ s by pole		
Total lightning current	Itotal	25 kA
max. total withstand @ 10/350 $\mu$ s		
Current withstand short circuit PV	Iscpv	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/-	Up	2.8 kV
@ In (8/20 $\mu$ s)		
Protection level +/-PE (-/PE)	Up	2.2 kV
@ In (8/20 $\mu$ s)		

#### Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
Connection to Network		By screw terminals: 6-35mm <sup>2</sup>
Format		1-pole modular 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		Disconnection SPD of the PV line
Disconnection indicator		1 mechanical indicator
Remote signaling of disconnection		Output on changeover contact - 250 Vac/0.5 A (AC) - 30 Vdc/3A (DC)
Dimensions		See diagram
Weight		0.252 kg

#### Disconnectors

Thermal disconnector		Internal
Back-up protection device		Without

#### Standards

Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
Certification		

#### Part number

3963		
------	--	--

