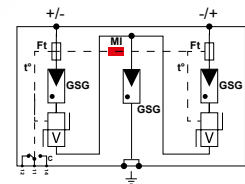
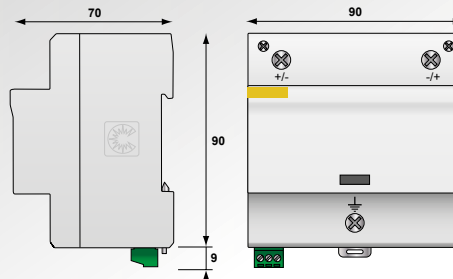


Type 1+2 PV Surge Protector DS60VGPV/51 series



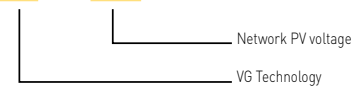
CITEL



GSG: Gas-filled spark gap
V : High energy MOV
Mi : Disconnection indicator
Ft : Thermal fuse
t° : Thermal disconnection mechanism
C : Contact for remote signal

- Type 1+2 Surge Protector for Photovoltaic
- VG-Technology
- No leakage, no operating currents
- Improved life expectancy
- Impulse currents I_{imp}/I_{total} : 12.5/25 kA @ 10/350µs
- Common and Differential mode protection
- Remote Signaling
- EN 50539-11 compliance
- VDE and OVE approved

DS60VGPV-xxxG/51



Characteristics

CITEL Model		DS60VGPV-600G/51	DS60VGPV-1000G/51	DS60VGPV-1500G/51
Description		Type 1+2 PV surge protector		
Network	Uocsc	PV network 600 Vdc	PV network 1000 Vdc	PV network 1250 Vdc
Connection mode		+/-/PE	+/-/PE	+/-/PE
Protection mode(s)		CM/DM	CM/DM	CM/DM
Max. PV operating voltage	Ucpv	720 Vdc	1200 Vdc	1500 Vdc
Current withstand short circuit PV	Iscpv	1000 A	1000 A	1000 A
Permanente operating current - Leakage current at Ucpv	Icpv	None	None	None
Residual current - Leakage current at Ucpv	Ipe	None	None	None
Nominal discharge current - 15 x 8/20 µs impulses	In	20 kA	20 kA	20 kA
Max. discharge current - max. withstand @ 8/20 µs by pole	Imax	40 kA	40 kA	40 kA
Impulse current by pole - max. withstand 10/350µs	Iimp	12.5 kA	12.5 kA	12.5 kA
Total lightning current - max. total withstand @ 8/20 µs	Itotal	25 kA	25 kA	25 kA
Protection level CM/DM @In (8/20µs) and @ 6kV (1.2/50µs)	Up	2.2/2.8 kV	4.7/5.4 kV	4.7/5.4 kV
Current withstand short circuit PV	Iscpv	1000 A	1000 A	1000 A
Associated disconnectors				
Thermal disconnector		internal		
Fuses		without		
Mechanical characteristics				
Dimensions		see diagram		
Connection to Network		screw terminals: 6-35mm²		
Disconnection indicator		1 mechanical indicator		
Remote signaling of disconnection		Output on changeover contact - 250 Vac/0.5 A (AC) - 30 Vdc /3 A (DC)		
Mounting		Symmetrical rail 35 mm (EN60715)		
Operating temperature		-40/+85°C		
Protection rating		IP20		
Housing material		Thermoplastic UL94-V0		
Standards compliance		EN50539-11 / UTE C61740-51		
Certification		EAC	VDE / OVE / EAC	EAC
Part number		3963	3958	3956

*] CM = Common mode (+/PE or -/PE) - DM = Differential mode (+/-)

