

# Type 1+2 PV Surge Protector DS60VGPV/51 series



DS60VGPV-1500G/51

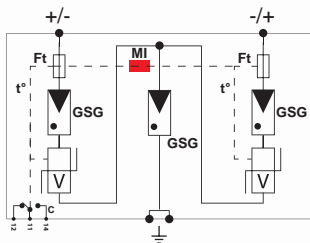
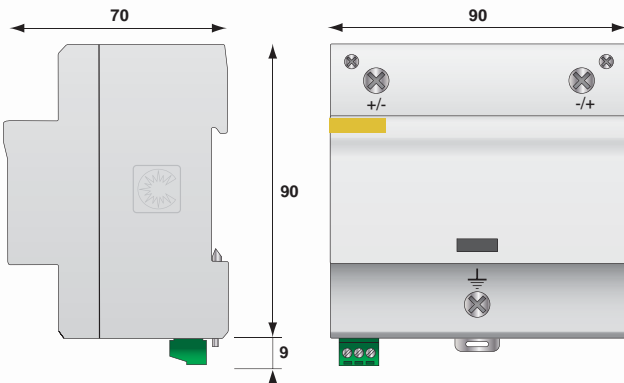
- **Type 1+2 Surge Protector for Photovoltaic**
- **VG-Technology**
- **No leakage, no operating currents**
- **Improved life expectancy**
- **Impulse currents  $I_{imp}$  12.5 kA/pole @ 10/350 $\mu$ s**
- **Common and Differential mode protection**
- **Remote Signaling**
- **UTE C61-740-51 and prEN 50539-11 compliance**

DS60VGPV-xxxG/51

Network voltage

## Dimensions - Electrical diagram

(in mm)



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

## Characteristics

CITEL part number		DS60VGPV-600G/51	DS60VGPV-1000G/51	DS60VGPV-1500G/51
Network voltage	Uocstc	600 Vdc	1000 Vdc	1250 Vdc
Protection mode *		CM/DM	CM/DM	CM/DM
Max. operating voltage	Ucpv	720 Vdc	1200 Vdc	1500 Vdc
Current withstand short circuit	Iscwp	>1000 A	>1000 A	>1000 A
Operating current to the voltage Ucpv	Icpv	none	none	none
Leakage current to the voltage Ucpv	Ipe	none	non	none
Follow current	If	none	none	none
Nominal discharge current 15 x 8/20 $\mu$ s impulses	In	20 kA	20 kA	20 kA
Maximum discharge current 10/350 $\mu$ s withstand	Iimp	12.5 kA	12.5 kA	12.5 kA
Max. Lightning current by pole 8/20 $\mu$ s withstand	Imax	40 kA	40 kA	40 kA
Protection level CM/DM* (at In)	Up	2.2/2.8 kV	3.4/4.9 kV	3.4/6 kV

### Disconnecter

Thermal Disconnecter: internal

### Mechanical characteristics

Dimensions	see diagram
Connection	Screw terminal for 6-35 mm <sup>2</sup> wire
Disconnection indicator	1 mechanical indicator
Remote signaling (DS60VGPVS)	250V/0.5 (AC) - 125V/3A (DC)
Mounting	symmetrical rail 35 mm
Operating temperature	-40/+85 °C
Protection class	IP20
Housing material	Thermoplastic UL94-V0

### Standards compliance

UTE C61-740-51	France	Parafoudre pour réseau PV - Essai de Classe I et II
prEN 50539-11	Europe	Parafoudre pour réseau PV - Essai de Classe I et II
UL1449 ed.3	USA	Type 4, Type 2 location - Pending

### Part Number

DS60VGPV-600G/51	--
DS60VGPV-1000G/51	3958
DS60VGPV-1500G/51	3956

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

