

# Type 1+2 PV Surge Protectors

## DS60VGPV Series



DS60VGPV-1000

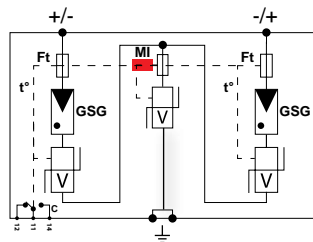
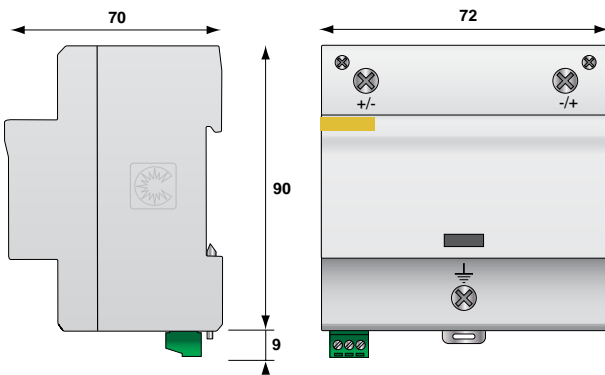
- **UL Type 1 CA DC SPD for PV Systems**
- **VG Technology for Maximum Performance**
- **Zero Leakage Current**
- **Zero Working Current**
- **Iimp : 12.5kA/pole at 10/350µs**
- **In : 20kA/pole at 8/20µs**
- **UL 1449 3rd Edition Recognized**

DS60VGPV-xxx

Network Voltage

### Dimensions and 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-500	DS60VGPV-1000	DS60VGPV-1500G/51
Network voltage	Uocstc	500 Vdc	1,000 Vdc	1,250 Vdc
Protection mode *		CM/DM	CM/DM	CM/DM
Maximum operating voltage	Ucpv	600 Vdc	1,200 Vdc	1,500 Vdc
Short-circuit current rating	Scrc	100,000 A	100,000 A	>1,000 A (Iscwpv)
Operating current to the Voltage Ucpv	Icpv	none	none	none
Leakage current to the voltage Ucpv	Ipe	none	none	none
Follow current	If	none	none	none
Nominal discharge current 15 x 8/20 µs Impulses	In	20 kA	20 kA	20 kA
Maximum discharge current 10/350 µs Withstand	Iimp	12.5 kA	12.5 kA	12.5 kA
Maximum discharge current 8/20µs Withstand	Imax	40 kA	40 kA	40 kA
Protection level (at In)	Up	<1,700 V	<2,800 V	<3,400 V

#### 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	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	PV Surge Protection - Class I and II Testing		
EN 50539-11: Europe	PV Surge Protection - Class I and II Testing		
UL1449 3rd Edition: USA	Type 1 CA	Type 1 CA	-

#### Part Number

DS60VGPV-500	3948
DS60VGPV-1000	3947
DS60VGPV-1500G/51	3956

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

