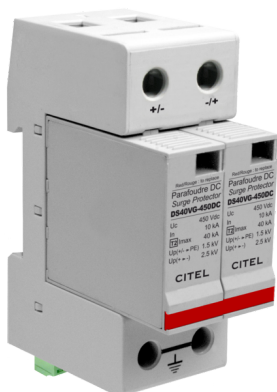
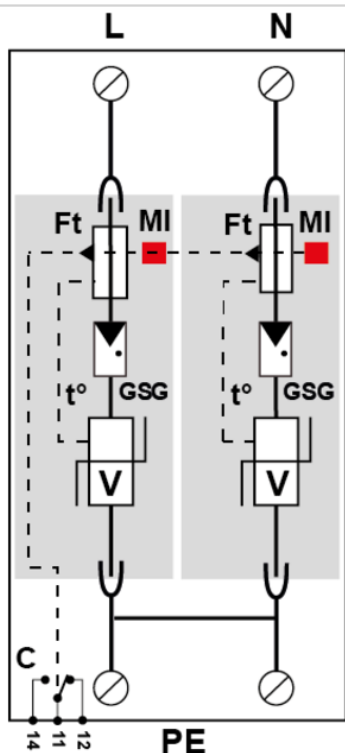
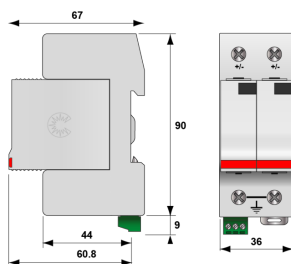


DS42VGS-450DC



- ✦ Type 2 SPD for DC power
- ✦ VG technology
- ✦ In 10 kA / I_{max} 40 kA
- ✦ Pluggable module
- ✦ Leakage and operating currents : none
- ✦ No ageing
- ✦ Remote signaling status
- ✦ Conforme prIEC 61643-41 and UL1449 ed.5
- ✦ Certified EN 61643-31 / IEC 61643-31



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	IEC	2
Network		400 Vdc
Nominal PV voltage	U _{ocstc}	350 Vdc
Max. PV operating voltage	U _{cpv}	450 Vdc
Max. DC operating voltage	U _c	450 Vdc
PV Permanent Operating current	I _{cpv}	None
Current consumption at U _{cpv}		
Follow current	I _f	None
Nominal discharge current	In	10 kA
15 x 8/20 µs impulses		
Max. discharge current	I _{max}	40 kA
max. withstand @ 8/20 µs by pole		
Current withstand short circuit PV	I _{scpv}	1000 A
Connection mode(s)		+/-PE and -/PE
Protection mode(s)		Common mode
Protection level +/- @ In (8/20µs)	U _p	2.5 kV
Protection level +/-PE (-/PE) @ In (8/20µs)	U _p	1.5 kV

Mechanical Characteristics

Technology		VG Technology (MOV+GSG)
SPD configuration		2-poles
Connection to Network		By screw terminals: 2.5-25mm ² / by bus
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	T _u	-40/+58°C
Protection rating		IP20
Failsafe mode		Disconnection from DC network
Disconnection indicator		1 mechanical indicator by pole
Spare module(s)		DSM40VG-450DC
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Weight		0.190 kg

Disconnectors

Thermal disconnector		Internal
Back-up protection device		Fuses type gG - 50 A

Standards

Standards compliance		IEC 61643-31 / EN 61643-31 / prIEC 61643-41 and UL1449 ed.5
Certification		KEMA

Part number

46287132