



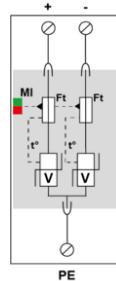
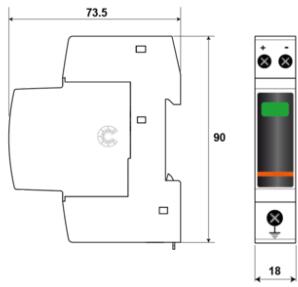
# DC power surge protector Type 2 - 12 Vdc

**CITEL**

**DDC20C-20-24**



- Type 2 DC power surge protector
- Compact design
- Imax: 20 kA
- Pluggable module
- Remote signaling (option)
- Low Up protection level
- Compliance prlEC 61643-41 and UL1449 ed.5



V: High-energy varistor  
Ft: Thermal fuse  
t°: Thermal disconnection system  
MI: Disconnection indicator

## Electrical Characteristics

SPD type	2
Network	DC network 12 Vdc
Nominal PV voltage	Uocstc 12 Vdc
Max. AC operating voltage	Uc 20 Vac
Max. PV operating voltage	Ucpv 24 Vdc
Max. DC operating voltage	Uc 24 Vdc
Max. load current @25°C	IL 20 A
Residual Current <i>Leakage current to Ground</i>	Ipe < 0.1 mA
PV Permanent Operating current <i>Current consumption at Ucpv</i>	Icpv < 0.1 mA
Follow current	If None
Nominal discharge current <i>15 x 8/20 µs impulses</i>	In 10 kA
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	Imax 20 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 µs</i>	Imax Total 40 kA
Current withstand short circuit PV	Iscpv 1000 A
Connection mode(s)	+/-PE
Protection level +/PE (-/PE) <i>@ In (8/20µs)</i>	Up 250 V

## Mechanical Characteristics

Technology	MOV
Connection to Network	By screw terminals: 1.5-10mm² (actives wires) and 2.5-25mm² (ground)
Format	Plug-in 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 from DC network
Disconnection indicator	1 mechanical indicator - Red/Green
Spare module(s)	MDDC20C-20-24
Remote signaling of disconnection	Option DDC20CS-20-24 : output on changeover contact
Dimensions	See diagram - 1TE (EN43880)
Weight	0.100 kg
Disconnectors	
Thermal disconnector	Internal
Back-up protection device	20 A min. - 125 A max. - Fuses type gG
Standards	
Standards compliance	prlEC 61643-41 and UL1449 ed.5
Part number	828210311

