



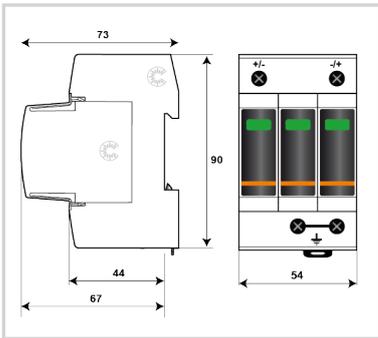
# CITEL

## DC power surge protector

### DDC50-21Y-500



- DC power Type 2 SPD
- For Energy Storage/EV Charging
- In/Imax: 20/50 kA
- Pluggable modules
- Remote signaling (option)
- prIEC 61643-41 compliance



#### Electrical Characteristics

SPD type	IEC	2
Nominal DC voltage	Un-dc	450 Vdc
Max. DC operating voltage	Uc	500 Vdc
Residual Current <i>Leakage current to Ground</i>	Ipe	< 0.2 mA
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	50 kA
Impulse current by pole <i>max. withstand 10/350μs by pole</i>	Iimp	4 kA
Protection level +/- <i>@ In (8/20μs)</i>	Up	2.1 kV
Protection level +/-PE (-/PE) <i>@ In (8/20μs)</i>	Up	2.1 kV
Admissible short-circuit current	Iscsr	100 000 A

#### Mechanical Characteristics

Connection to Network	By screw terminals: 2.5-25 mm <sup>2</sup> (35 mm <sup>2</sup> rigid)
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 by pole - Red/Green
Spare module(s)	MDDC50-500
Remote signaling of disconnection	option DDC50S-21Y-500: output on changeover contact
Dimensions	See diagram - 3 TE (EN43880)
Weight	0.292 kg

#### Disconnectors

Thermal disconnector	Internal
Back-up protection device	Fuse assembly: SFD50S-10-1500DC /or 50 A min. (Iscsr 100 kA) - 125 A max. (Iscsr 50 kA) - gBat Fuses

#### Standards

Standards compliance	prIEC 61443-41 - IEC61643-11
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#### Part number

**828511253**

