



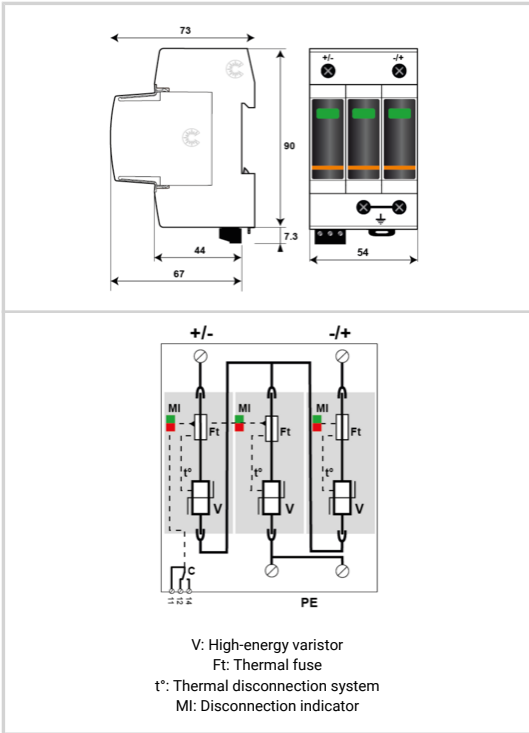
# DC power surge protector

# CITEL

## DDC50S-21Y-500



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



Electrical Characteristics	
SPD type	2
Nominal DC voltage	Un-dc 450 Vdc
Max. DC operating voltage	Uc 500 Vdc
Residual Current	Ipe < 0.1 mA
Leakage current to Ground	
Nominal discharge current	In 20 kA
15 x 8/20 μs impulses	
Max. discharge current	Imax 50 kA
max. withstand @ 8/20 μs by pole	
Impulse current by pole	Iimp 4 kA
max. withstand 10/350μs by pole	
Protection level +/- @ In (8/20μs)	Up 2.1 kV
Admissible short-circuit current	Iscsr 100 000 A
Mechanical Characteristics	
Connection to Network	By screw terminals: 2.5-25mm <sup>2</sup>
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	output on changeover contact
Wiring for remote signaling	1.5 mm <sup>2</sup> max.
Max. Voltage/Current for remote signaling	250 V / 0.5 A (AC) / 30 V / 3 A (DC)
Dimensions	See diagram - 3 TE (EN43880)
APPLICATION	ENERGY STORAGAGE SYSTEMS (ESS) /EV CHARGING
Disconnectors	
Thermal disconnector	Internal
Back-up protection device	50 A min. (Iscsr 100 kA) - 125 A max. (Iscsr 50 kA) - gBat Fuses
Standards	
Standards compliance	prIEC 61443-41 - IEC61643-11
Part number	
828511263	

