



CITEL

DC power surge protector

DDC50S-21Y-800



- 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	IEC 2
<p>V: High-energy varistor Ft: Thermal fuse t: Thermal disconnection system MI: Disconnection Indicator</p>	Nominal DC voltage	Un-dc 650 Vdc
	Max. DC operating voltage	Uc 800 Vdc
	Residual Current	Ipe < 0.2 mA
	Leakage current to Ground	
	Nominal discharge current 15 x 8/20 μs impulses	In 20 kA
	Max. discharge current max. withstand @ 8/20 μs by pole	Imax 50 kA
	Impulse current by pole max. withstand 10/350μs by pole	Iimp 4 kA
	Protection level +/- @ In (8/20μs)	Up 2.7 kV
	Admissible short-circuit current	Iscsr 100 000 A
	Mechanical Characteristics	
Connection to Network	By screw terminals: 2.5-25 mm ² (35 mm ² 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)	MDDC50-800	
Remote signaling of disconnection	output on changeover contact	
Wiring for remote signaling	1.5 mm ² 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 STORAGE 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		
828511363		

