

INDRIVETEC AG

"bricks up" flexible energy storage systems

“BRICK” FlexConvert-SCES SuperCap Energy Storage

Technical data

DC connection	SCES300-DC	SCES600-DC	SCES900-DC
Nominal DC power	300 kW	600 kW	900 kW
Maximum DC power	600 kW	1200 kW	1800 kW
DC nominal voltage range	900 VDC – 1100 VDC		
Minimum DC voltage	500 VDC		
Electrical isolation	no		
Useable energy	2,5 MJ	5 MJ	7,5 MJ
Control mode	current-, voltage-, power control and droop mode		
Auxiliary power supply	1 x 230 VAC, other upon request		
Dimensions (W x D x H)	1600 x 1000 x 2500 mm	2600 x 1000 x 2500 mm	3600 x 1000 x 2500 mm
Weight	2300 kg	3000 kg	3800 kg
Operation temperature	+5... +45°C (extended range upon request)		
Storage temperature	-15... +45°C (extended range upon request)		
Enclosure type according EN60529	IP40 indoor		
Cooling	air-cooled		
Certification / authorisations	CE, UL/UR, CSA, other upon request		
Standards	EN61000-62, EN61000-6-4, EN62477-1, IEC62103		
FlexConvert for AC-connection	FC500	FC1000	FC1500

*Technical data are subject to change, even for reasons on country-specific deviations.
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BRICK FlexConvert-SCES SuperCap Energy Storage

FlexConvert-SCES SuperCap Energy Storage

the flexible and versatile product line for short-time energy storage systems

System advantages

Bidirectional DC-DC converter with highly efficient control algorithms.

Innovative cooling concept for fully operational control of integrated services and functionalities.

SuperCaps surpass rechargeable batteries in power density and deliver an excellent life time cycle.

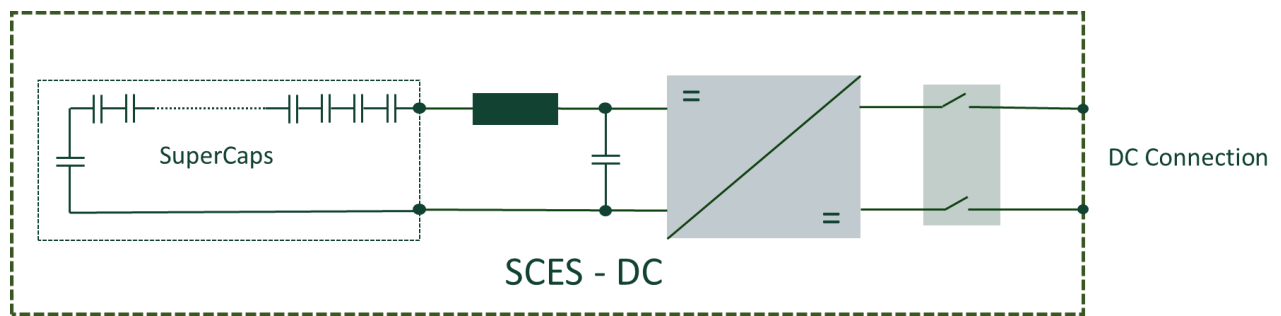
SuperCaps can be charged and discharged over several hundred thousands cycles.

SuperCaps are capable of rapid charge/discharge with large currents (high output density)

SuperCaps are capable of full discharge (no limit to depth of discharge)

High degree of safety during abnormalities, and not damaged by external shorts

Block diagram FlexConvert-SCES



References

FexConvert-SCE-SuperCap Energy Storage

Battery inverter with inertia and short circuit control

- Russia (Tyumen):** 500 kW SuperCap storage unit, Compensating power fluctuations of an 800 kW compressor, Commissioning Q4/2014
- Spain (Port Aventura):** 600 kW SuperCap storage unit, Part of 3 MW/25 MJ storage for a roller coaster application, Commissioning Q4/2016
- USA (Orlando):** 6 MW / 52 MJ, SuperCap storage system, Linear motor rollercoaster application, Commissioning Q1/2019

