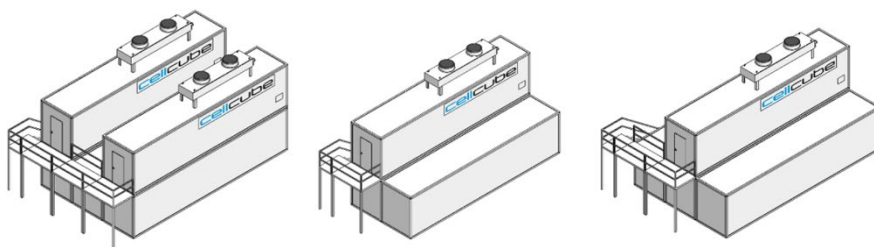


DC Data Sheet - CellCube FB 250 / FB 500 Series Release 4.0



Technical Data

	FB 500-2000	FB 250-1000	FB 250-2000
Battery technology	Vanadium Redox Flow Battery		
Battery performance DC¹⁾			
Rated charge/discharge DC power	470 / 530 kW	235 / 265 kW	
Max. charge / discharge DC power	940 / 800 kW	470 / 400 kW	
Usable energy at DC POC²⁾			
@ 100% constant rated DC power			
Auxiliary energy not deducted	2,470 kWh	1,235 kWh	2,470 kWh
Auxiliary energy deducted ³⁾	2,400 kWh	1,200 kWh	2,400 kWh
Maximum usable energy at DC POC			
@ 50% constant rated DC power			
Auxiliary energy not deducted ⁴⁾	2,960 kWh	1,480 kWh	2,960 kWh
Auxiliary energy deducted	2,800 kWh	1,400 kWh	2,800 kWh
Cycle life	> 20,000 @ 100% DOD		
Battery interface			
DC connection	530 ... 910 V, IT-Grid		
Max. DC current	2x 762 A	762 A	
Protection DC side	Fuses, insulation monitoring, surge protection device, main switch		
AC connection	400 V, 50 Hz / 60 Hz, 3P+N+PE, TN-S-grid		
Auxiliary power (max. / average) ⁵⁾	40 kW / 16 kW	20 kW / 8 kW	
Communication	MODBUS TCP/IP		
General			
Design lifetime	25 years		
Electrolyte solution	Water based vanadium electrolyte, non-flammable, re-usable		
Noise emission ⁶⁾	< 45 dB(A)		
Standards and directives complied with ⁷⁾	CE		
Ambient temperature range	-15 °C ... + 45 °C		
Temperature management ⁸⁾	Max. 24 hrs ambient average temperature: 27 °C @ 2 cycles per day 30 °C @ 1 cycle per day		

¹⁾ All data measured at an average electrolyte temperature of 35 °C

²⁾ POC = Point of connection

³⁾ Refers to "rated energy"

⁴⁾ Refers to "name plate energy"

⁵⁾ Depending on SOC, power, temperature

⁶⁾ Sound pressure level at a distance of 10 m

⁷⁾ Other compliances or Field Evaluations available on request

⁸⁾ Other temperature management options available on request. One cycle is equivalent to the turnover of rated energy

Technical Data

FB 500-2000	FB 250-1000	FB 250-2000
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Mechanical data

Enclosure type⁹⁾
Footprint (w/o stairs) L x W
Height with cooling system
Total weight in operation
Degree of protection

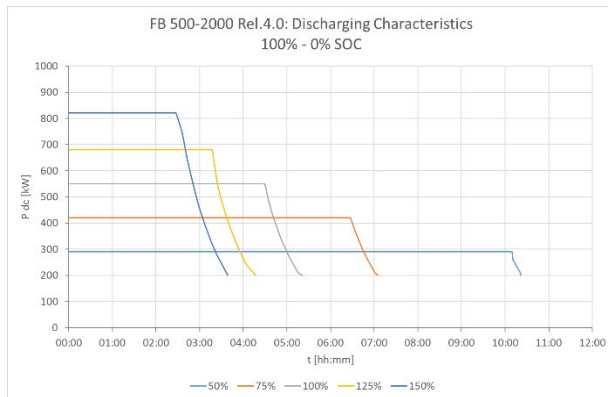
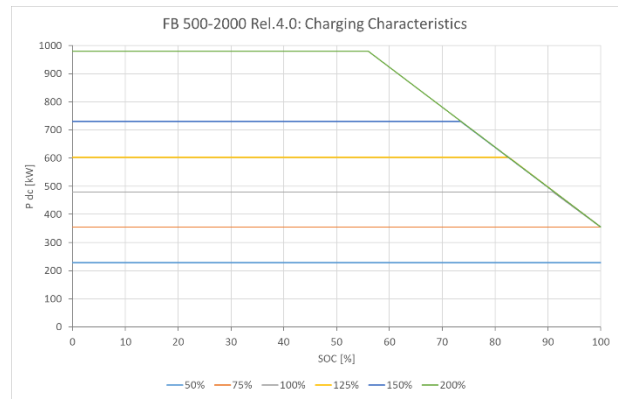
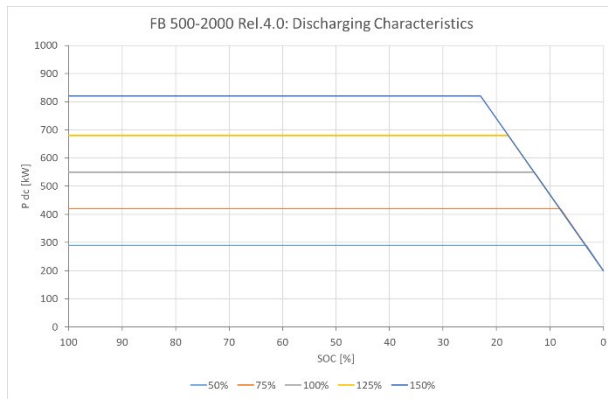
Thermally isolated 40' ISO HC-containers with C3 coating		
12.2 m x 7.4 m	12.2 m x 4.9 m	12.2 m x 7.4 m
7.5 m		
265 t	135 t	245 t
IP 54		

Characteristics

FB 500-2000

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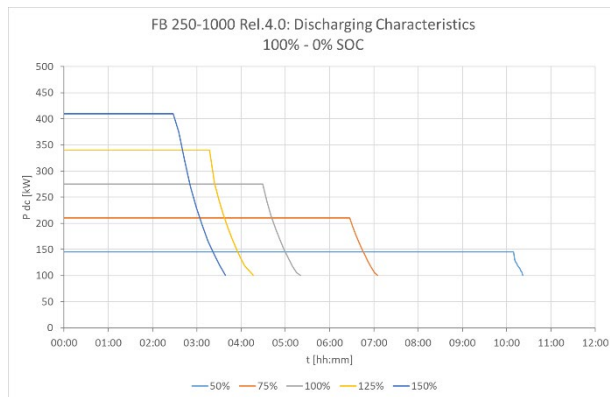
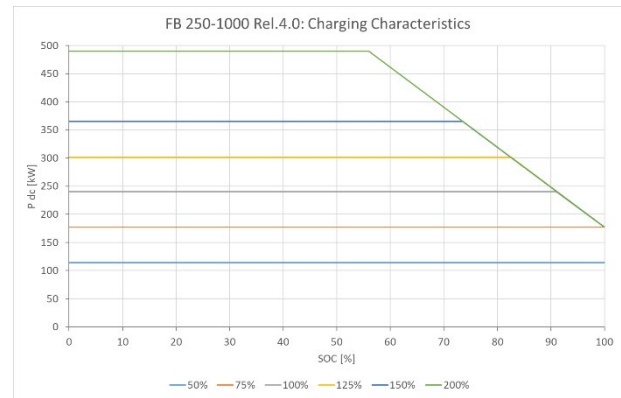
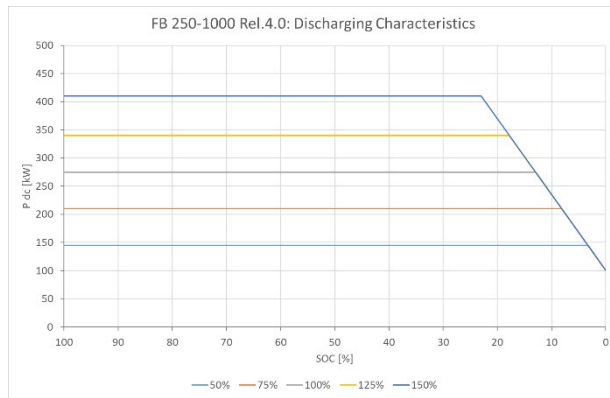
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⁹⁾ other coating options available on request

Characteristics

FB 250-1000



Characteristics

FB 250-2000

