



## Technical Datasheet

	<b>FB 100 kW – 500 kWh</b>
<b>Battery technology</b>	Vanadium Redox Flow Battery
<b>Battery performance AC<sup>1</sup></b>	
Rated charge/discharge AC power	100 kW
<b>Usable energy</b>	
At POC and rated AC power	500 kWh
Cycle life	> 20.000 @ 100% DOD
<b>Battery interface</b>	
DC connection	32 ... 64 V, IT-Grid
Max. DC current	12 x 200 A
Protection DC side	Fuses, insulation monitoring, surge protection device, main switch
AC connection	400 V, 50 Hz, 3P+N+PE, TN-S-grid
Auxiliary power (max. / average) <sup>3</sup>	10 kW / 6 kW
Communication	MODBUS TCP/IP
<b>General</b>	
Design lifetime	25 years
Electrolyte solution	Water based vanadium electrolyte, non-flammable, re-usable
Noise emission <sup>4</sup>	<45 dB(A)
Standards and directives complied with <sup>5</sup>	CE
Ambient temperature range	-15 °C ... + 45 °C
<b>Mechanical data</b>	
Enclosure type <sup>6</sup>	Thermally isolated 40' ISO HC-containers with C3 coating
Footprint (w/o stairs) L x W	12.2 x 2.4 m
Height with cooling system	3 m
Total weight in operation	46 t
Degree of protection	IP 54

<sup>1</sup>All data are measured at an average electrolyte temperature of 35 °C. Depending on the SOC range.

<sup>2</sup> Refers to 'rated energy'

<sup>3</sup> Depending on SOC, power, temperature

<sup>4</sup> Sound pressure level at 10m

<sup>5</sup> Other compliances or Field Evaluations are available on request

<sup>6</sup> Other coating options are available on request