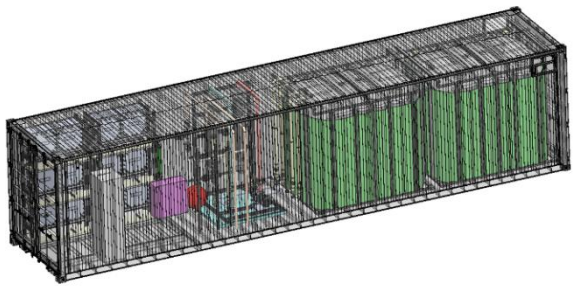
INO-HUB Energy Redox Flow Battery System

Technical Datasheet



	FB 100 kW – 500 kWh
Battery technology	Vanadium Redox Flow Battery
Battery performance AC[1]	
Rated charge/discharge AC power	100 kW
Usable energy	
At POC and rated AC power	504 kWh
Cycle life	> 20.000 @ 100% DOD
Battery interface	
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)[3]	12 kW / 6 kW
Communication	MODBUS TCP/IP
General	
Design lifetime	25 years
Electrolyte solution	Water based vanadium electrolyte, non-flammable, re-usable
Noise emission[4]	<45 dB(A)
Standards and directives complied with[5]	CE
Ambient temperature range	-15 °C … + 45 °C
Mechanical data	
Enclosure type[6]	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

[1]All data are measured at an average electrolyte temperature of 35 °C. Depending on the SOC range.

[2] Refers to ‘rated energy’

[3] Depending on SOC, power, temperature

[4] Sound pressure level at 10m

[5] Other compliances or Field Evaluations are available on request

[6] Other coating options are available on request