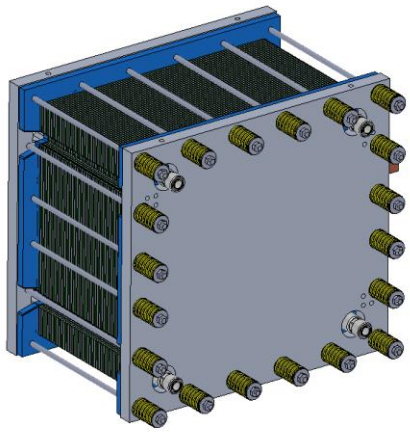
INO-HUB Energy Redox Flow Stack – Target Values

Technical Datasheet



		Stack
Battery technology		Vanadium Redox Flow Battery
Electrical Data		
Rated charge/discharge DC power		9 kW
Max. charge/discharge DC power		13.5 kW
Voltage range		32V – 64V
Rated Current		159 A
Resistance[1]		30 mΩ
Number of cells		40
Active Area		40480 cm^2
Efficiencies @ 100% constant rated DC power		
Energy Efficiency[2]		80%
Voltage Efficiency[2]		82%
Coulombic Efficiency[2]		97%
Hydraulic Data		
Rated Pressure		1 bar
Max. pressure		1.5 bar
Typical flow rate per side		30 L/min
Max. flow rate per side		40 L/min
Pipe connection		20 mm
Mechanical data		
Dimensions (l x b x h)		514 mm x 600 mm x 616 mm
Weight empty/filled		156 kg/ xxx
General		
Electrolyte solution		Vanadium Electrolyte (1.6-1.7M)
Electrolyte temperature range		0 °C … + 40 °C
Cycle life		> 20.000

[1] *@SOC50, 9kW, 35°C*
[2] *Refers to standard cycle: 9kW charge/discharge, SOC15-85, 32-64V, 35°C, 30L/min*