

VisBlue vanadium redox flow battery – indoor module				
Power and capacity				
Energy storage capacity [kWh]	Scalable up to 50			
Nominal charge/discharge power [kW]	Scalable up to 20	In steps of 2.5 kW		
For larger systems multiple modules can be assembled				
Peak charge/discharge power	1.5 x nominal power	30 min. on / 30 min. off		
DC efficiency (stack)	80%	DC roundtrip include both charge and discharge efficiency		
AC efficiency (system) @ nominal power	70%	AC roundtrip include both charge and discharge efficiency		
DC voltage	40V to 60V			
AC voltage	1x230VAC	3x400VAC 50Hz		
Grid connection	1 phase	3 phases		
Depth of charge and discharge	5% to 95%			
Response time	<20ms			
Self-discharge	<0.3% of full capacity per day with pumps stopped	<100 Wh per day for a 33kWh system		
Remote access				
Communication	Remote access through LAN	Modbus TCP Receive address list on request		
Battery control	Charge/discharge is controlled by input from energy meter	Charge/discharge is controlled by input from external master		
Remote monitoring				
Cloud access	Data accessing from cloud			
Web page	Visualisation of front end data	Visualisation of back end data		
Size and mass				
Module size [tank in l]	600	800	1000	1250
kW/kWh	5/25	5/30	5/40	5/50
Footprint [mm] (WxD)	1710 x 1600	1710 x 1600	1710 x 2000	1710 x 2000
Height [mm]	1600	1800	1800	2000
Weight [kg]	1900	2400	2800	3300
Cycle and design life	20,000 cycles (20 years)			
Environment				
Operating temperature [°C]	-10 to +40			
Humidity	95% RH non- condensing			
Safety	Non-flammable and non-explosive	Water based electrolyte		

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