

VisBlue vanadium redox flow battery – container module		
Power and capacity		
Energy storage capacity [kWh]	Scalable up to 200	
Nominal charge/discharge power [kW]	Scalable up to 40	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 33 kWh 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		
Container size [foot]	20'	
kW/kWh	40/200	
Footprint [mm] (WxD)	2440 x 6060	
Height [mm]	2590	
Weight [kg]	17200kg	
Cycle and design life	20,000 cycles (20 years)	
Environment		
Operating temperature [°C]	-10 to +40	
Humidity	95% RH non- condensing	
Ventilation	Depends on environment	Cooling/heating can be installed
Safety	Non-flammable and non-explosive	Water based electrolyte

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