

<b>VisBlue vanadium redox flow battery – indoor module</b>				
<b>Power and capacity</b>				
<b>Energy storage capacity [kWh]</b>	Scalable up to 50			
<b>Nominal charge/discharge power [kW]</b>	Scalable up to 20	In steps of 1.7 kW		
For larger systems multiple modules can be assembled				
<b>Peak charge/discharge power</b>	1.5 x nominal power	30 min. on / 30 min. off		
<b>DC efficiency (stack)</b>	80%	DC roundtrip include both charge and discharge efficiency		
<b>AC efficiency (system) @ nominal power</b>	70%	AC roundtrip include both charge and discharge efficiency		
<b>DC voltage</b>	40V to 60V			
<b>AC voltage</b>	1x230VAC	3x400VAC 50Hz		
<b>Grid connection</b>	1 phase	3 phases		
<b>Depth of charge and discharge</b>	5% to 95%			
<b>Response time</b>	<20ms			
<b>Self-discharge</b>	<0.3% of full capacity per day with pumps stopped	<100 Wh per day for a 33kWh system		
<b>Remote access</b>				
<b>Communication</b>	Remote access through LAN	Modbus TCP Receive address list on request		
<b>Battery control</b>	Charge/discharge is controlled by input from energy meter	Charge/discharge is controlled by input from external master		
<b>Remote monitoring</b>				
<b>Cloud access</b>	Data accessing from cloud			
<b>Web page</b>	Visualisation of front end data	Visualisation of back end data		
<b>Size and mass</b>				
<b>Module size [tank in l]</b>	600	800	1000	1250
<b>kW/kWh</b>	3.5/25	3.5/30	3.5/40	3.5/50
<b>Footprint [mm] (WxD)</b>	1710 x 1600	1710 x 1600	1710 x 2000	1710 x 2000
<b>Height [mm]</b>	1600	1800	1800	2000
<b>Weight [kg]</b>	1900	2400	2800	3300
<b>Cycle and design life</b>	20,000 cycles (20 years)			
<b>Environment</b>				
<b>Operating temperature [°C]</b>	-10 to +40			
<b>Humidity</b>	95% RH non- condensing			
<b>Safety</b>	Non-flammable and non-explosive	Water based electrolyte		

Visit our website at: [www.visblue.com](http://www.visblue.com)

Enquiries: [sales@visblue.com](mailto:sales@visblue.com)

