

VisBlue product datasheet – Vanadium Redox Flow Battery

Power and Capacity		
Energy storage capacity	25 to 500kWh	
Nominal charge/discharge power	5 to 100kW in steps 5kW	Steps determined by inverter
Peak charge/discharge power	1.5 x nominal power	30min on / 30min off
DC efficiency (stack)	80%	
AC efficiency (system) @ nominal power	70%	AC roundtrip include both charge and discharge efficiency
DC voltage	48V	
AC voltage	3x400VAC 50Hz	
Grid Connection	1 or 3 phases	
Depth of discharge	5% to 95%	
Response time	<20ms	
Self-discharge	<0.3% of full capacity per day with pumps stopped	<100Wh per day for a 33kWh system
Remote Access		
Communication	Remote access through LAN	Modbus TCP Receive Address List on request
Control and	Charge/discharge is controlled externally or from energy meter	

Size and Mass		
Footprint [mm] (WxD)	1740 x 1605 (5kW and 25kWh)	
Height [mm]	1736 (closed) 2156 (open)	
Footprint pressure on the installation site	< 1.500 kg/m ²	
Cycle and design life	≥10,000 cycles	20 years. Follows life expectancy of PV's
Installation site	Optional – Indoor or outdoor	
Environmental		
Ambient temperature	-40°C to +50°C	No efficiency loss at this range
Humidity	95% RH non- condensing	
Ventilation	Depending on environment	
Safety	Water based electrolytes makes the battery non-flammable and non-explosive	

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