

DELECTRIK SYSTEMS

RFB200 SERIES - 25 kW, 200 kWh

Delectrik's Redox Flow Battery (RFB) is an energy storage system for use in on-grid and off-grid applications in Commercial, Industrial and Utility space.

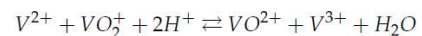
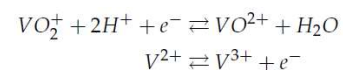
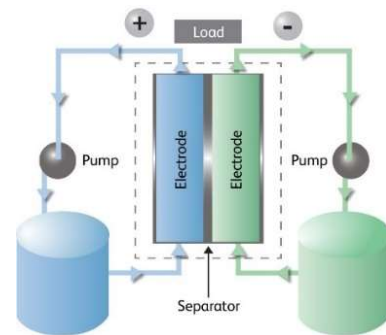
Key Features

- Long life (20+ yrs) with unlimited charge-discharge cycles
- Lowest total cost of ownership
- Multiple units can be connected to build MWh scale solution
- Outdoor system with integrated power electronics and controls solution
- Safe and Environmentally friendly
- Seamless renewables and grid integration
- Durable operations in rugged, remote outdoor environments up to 50°C ambient



Redox Flow Battery Technology

Delectrik's RFB is based on vanadium redox chemistry and falls into the general class of redox flow batteries. This class of battery employs an electrolyte where energy is stored and a cell stack where energy conversion occurs. Energy is stored chemically in different ionic forms of vanadium in a dilute acid electrolyte. The electrolyte is pumped from separate plastic storage tanks into flow cells across a membrane where one form of electrolyte is electrochemically oxidized, and the other is electrochemically reduced. This creates a current that is collected by electrodes and made available to an external circuit. The reaction is reversible allowing the battery to be charged and discharged.

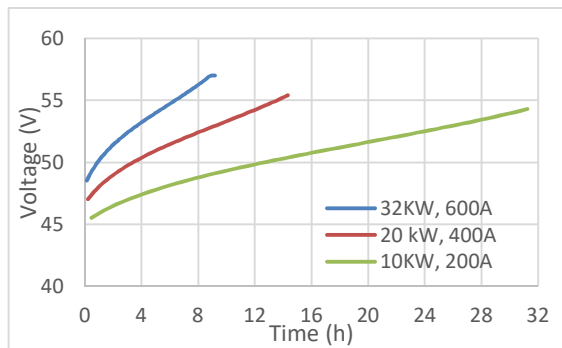


RFB200 Series System Specification

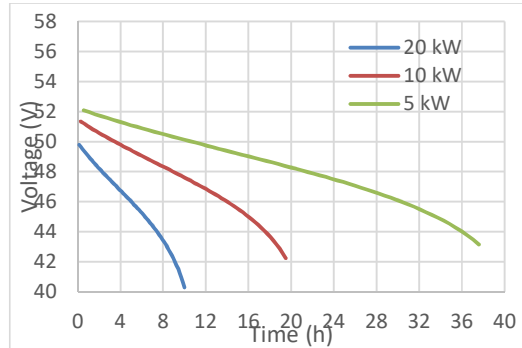
Voltage Range	48V (39V – 57V)
Output Energy Capacity	200 kWh
Output Power – Continuous	25 kW
Output Power – Instantaneous	50 kW
DOD	100%
Cycle Life	Unlimited
Discharge Time	8 h @ 25 kW
Charge Power Max	36 kW
DC-DC Efficiency Round Trip	70% – 75%
Ambient Temperature	-5°C – 50°C
Monitoring	GPRS – RS232
Footprint	7.5 m ² (80 sq ft)
Dimensions (W x D x H)	2.44 m x 3.05m x 3.66m (8ft x 10ft x 12ft)
Total Installed Weight (With Electrolyte)	16000 Kg

Charge and Discharge Characteristics

Charge after 100% Discharge



Discharge after 100% Charge



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