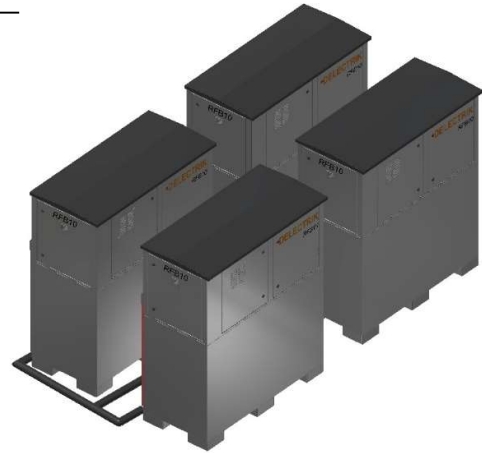


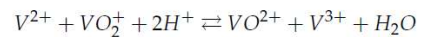
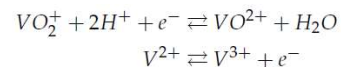
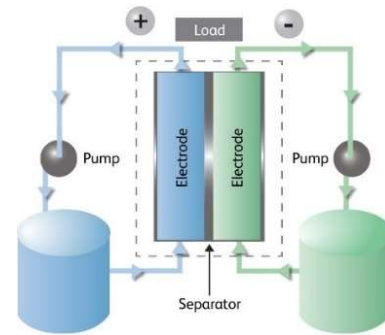
RFB10X SERIES: 10kWh - 60kWh

Delectrik's Redox Flow Battery (RFB) is an energy storage system for use in small-scale stationary applications such as residential, telecom, micro-grids and other critical commercial and industrial application.



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.



Key Features

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

RFB40X System Specification

Model	P1	P2	P3	P4	P5
No of RFB10 Units – N	1	2	2	4	6
Voltage Nominal	24V	24V	48V	48V	48V
Voltage BOD to TOC	20V – 30V	20V – 30V	40V – 60V	40V – 60V	40V – 60V
Output Energy Capacity	10 kWh	20 kWh	20 kWh	40 kWh	60 kWh
Output Power – Continuous	3 kW	6 kW	6 kW	12 kW	18 kW
Charge Power	4.5 kW	9 kW	9 kW	18 kW	27 kW
Charging Mode CC/CV	160A/30V	320A/30V	160A/60V	320A/60V	480A/60V
DOD	100%				
Cycle Life	Unlimited				
DC-DC Efficiency	70% - 75%				
Ambient Temperature	-5°C – 50°C				
Remote Monitoring	GPRS – RS232				
Remote Setting	SMS				
Programmable Relay	2				
Auto Restart	Auto-Start Feature for both AC/DC coupled system				
Integration with PV/Grid	Provision for both AC/DC coupled system				
Enclosure	Outdoor, IP54				
Footprint	1.0 m ² x N				
Dimensions (W x D x H)	1.5 m x 0.7 m x 1.8 m				
Total Weight	1300 Kg x N				

Delectrik Systems Private Limited
 Near Ardee City Gate No 2
 Wazirabad, Sector 52,
 Gurgaon, 122003 – Haryana, INDIA
 Tel: +91 9910064033
 Email: info@delectrik.com
www.delectrik.com