

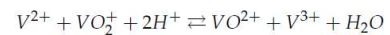
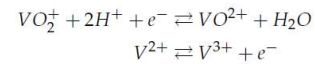
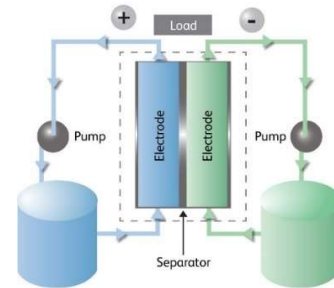
DELECTRIK SYSTEMS

RFB160X SERIES - 160 kWh x N

Delectrik's RFB160X series is a Vanadium Redox Flow Battery (RFB) for use medium scale Commercial, Industrial and Utility scale application.

TECHNOLOGY

Delectrik's RFB is based on vanadium redox chemistry. 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



Model	S1	S2	S3	S4
No of RFB200 Units	1	2	3	4
Discharge Power (kW)	32	64	96	128
Output Capacity (kWh)	160	320	480	640
Voltage BOD to TOC (V)^a	40-60	80-120	120-180	160-240
Charge Power (kW)	35	70	105	140
Charging Mode CC (A) /CV (V)	700/60	700/120	700/180	700/240
DOD	100%			
Cycle Life	Unlimited			
DC-DC Efficiency	70%			
Ambient Temperature	-5 C – 45 C			
Footprint	20 ft ISO Shipping Container			
Total Weight	15000 Kg x N			

CC – Constant Current

CV – Constant Voltage

BOD – Bottom of Discharge

TOC – Top of Charge

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