

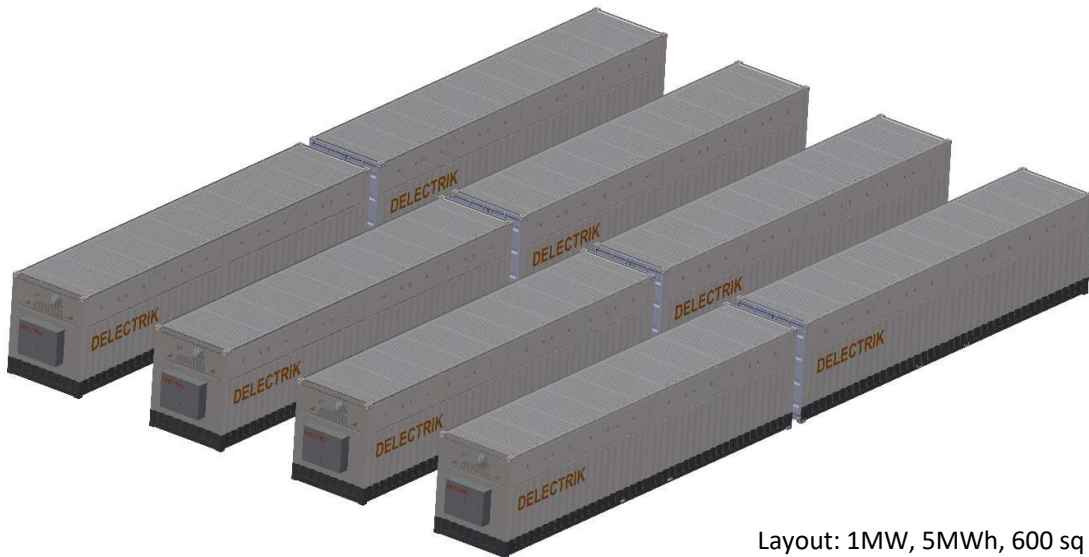
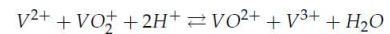
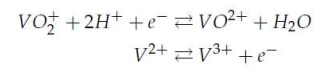
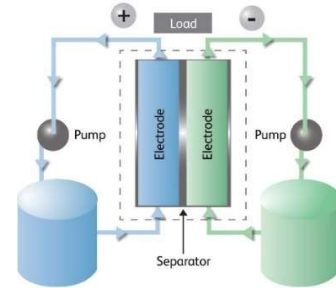
DELECTRIK SYSTEMS

RFB MW SERIES

Delectrik's RFB MW series is a Vanadium Redox Flow Battery (RFB) for use medium to large 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



Layout: 1MW, 5MWh, 600 sq m

Model	S1	S2	S3	S4	SN
Discharge Power (kW)	250	500	750	1000	250 * N
Output Capacity (MWh)	1.25	2.5	3.75	5	1.25 * N
DC Voltage Range (VDC) ¹	600 - 900	600 - 900	600 - 900	600 - 900	600 – 900
Output Voltage (VAC) ²	415, 3-Ph	415, 3-Ph	415, 3-Ph	415, 3-Ph	415, 3-Ph
Charge Power (kW)	300	600	900	1200	300 * N
Charging Mode CC (A) /CV (V)	350/900	700/900	1050/900	1400/900	350 * N/900
No of Container (40 ft High Cube)	2	4	6	8	2 * N
Footprint (m x m) includes access space	7 x 30	12 x 30	17 x 30	22 x 30	TBD
Total Weight Tons (with Electrolyte)	140	280	420	560	140 * N
DOD	100%				
Cycle Life	Unlimited				
DC-DC Efficiency	70% (Inclusive of Aux Losses)				
Ambient Temperature	-5°C – 50°C				

Note:

¹ Higher Voltage option available for DC coupling with PV on a common central inverter

² Other voltage options available such as 480V, 3 Ph

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