

A-Core Container

Lead-vanadium flow battery



Overview

The vanadium redox battery (VRB), also known as the vanadium flow battery (VFB) or vanadium redox flow battery (VRFB), is a type of rechargeable flow battery which employs vanadium ions as charge carriers. The battery uses vanadium's ability to exist in a solution in four different oxidation states to make a battery with a single electroactive element instead of two. For several reasons. $\approx 10\text{--}20\text{ Wh/kg}$ ($36\text{--}72\text{ J/g}$) $\approx 15\text{--}25\text{ Wh/L}$ ($54\text{--}65\text{ kJ/L}$) $\approx 75\text{--}80\%$. $\approx 10\text{--}20$ HistoryPissoort mentioned the possibility of VRFBs in the 1930s. NASA researchers and Pellegri and Spaziante followed suit in the 1970s, but neither was successful. presented the first successful demo.

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