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Overview

A flow battery, or redox flow battery (after reduction-oxidation), is a type of electrochemical cell where chemical energy is provided by two chemical components dissolved in liquids that are pumped through the system on separate sides of a membrane. Ion transfer inside the cell (accompanied by current flow through an external circuit) occurs across the membrane while the liquids circulate. HistoryThe (Zn-Br₂) was the original flow battery. John Doyle filed patent on September 29, 1879. Zn-Br₂ batteries have relatively high specific energy, and were demonstrated in electric car.

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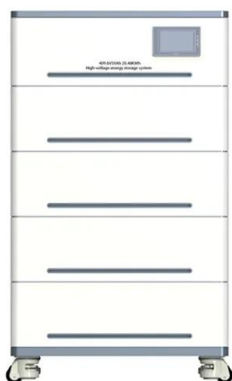
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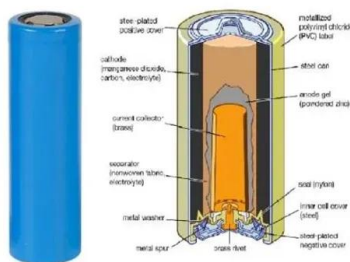
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