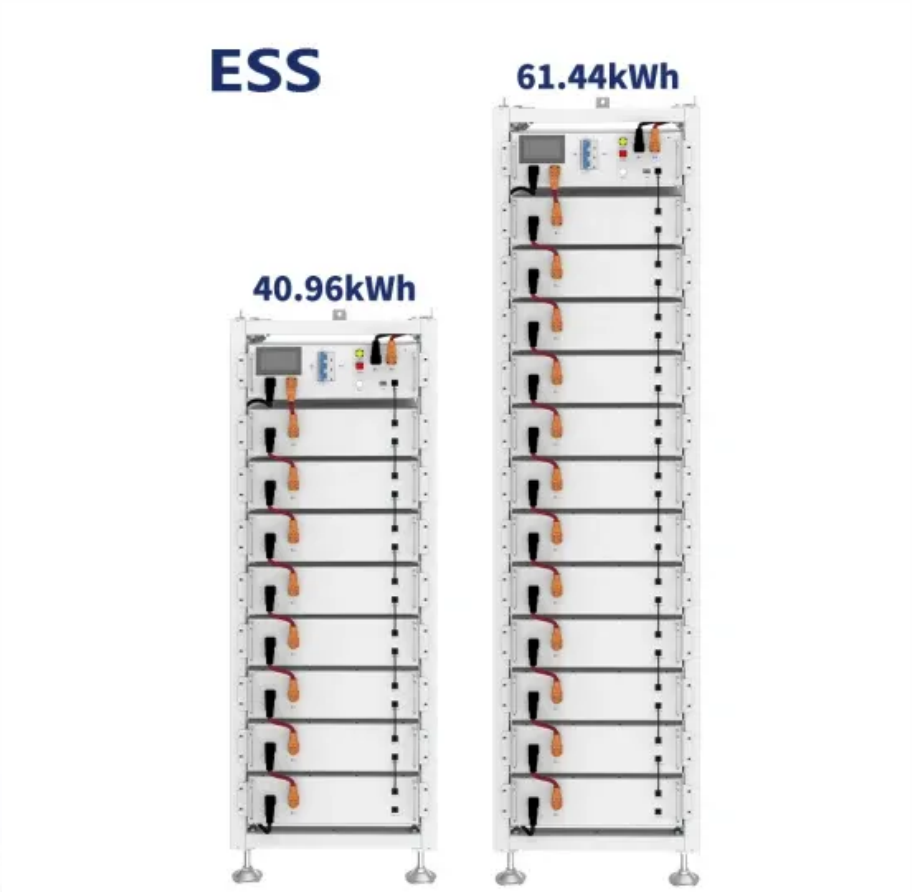
SolarTech Power Solutions

Structure of a single flow battery



Overview

□Flow batteries are electrochemical cells, in which the reacting substances are stored in electrolyte solutions external to the battery cell □Electrolytes are pumped through the cells □Electrolytes flow across the electrodes □Reactions occur atthe electrodes □Electrodes do not undergo.

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The purpose of this research is to investigate the design of low-cost, high-efficiency flow batteries. Researchers are searching for next-generation battery materials, and this thesis presents a systems analysis encompassing static and moving electrode architectures that identifies which.

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Redox flow batteries (RFBs) are an emerging electrochemical technology envisioned towards storage of renewable energy. A promising sub-class of RFBs utilizes single-flow membraneless architectures in an effort to minimize system cost and complexity. To support multiple functions, including reactant.

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