

# Internal structure of portable energy storage





## Overview

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What should be considered in the practical application of energy storage systems?

Besides, safety and cost should also be considered in the practical application. 1 - 4 A flexible and lightweight energy storage system is robust under geometry deformation without compromising its performance.

What are flexible energy storage devices?

To date, numerous flexible energy storage devices have rapidly emerged, including flexible lithium-ion batteries (LIBs), sodium-ion batteries (SIBs), lithium-O<sub>2</sub> batteries. In Figure 7E,F, a Fe<sub>1-x</sub>S@PCNWs/rGO hybrid paper was also fabricated by vacuum filtration, which displays superior flexibility and mechanical properties.

What is the mechanical reliability of flexible energy storage devices?

As usual, the mechanical reliability of flexible energy storage devices includes electrical performance retention and deformation endurance. As a flexible electrode, it should possess favorable mechanical strength and large specific capacity. And the electrodes need to preserve efficient ionic and electronic conductivity during cycling.

What is a 'energy fiber' based on?

A novel, all-solid-state, flexible “energy fiber” that integrated the functions of photovoltaic conversion and energy storage has been made based on titania nanotube-modified Ti wire and aligned MWCNT sheet as two electrodes. the “energy fiber” could be bent into various forms depending on the application requirement.



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