

# **What are the types of flexible energy storage batteries**





## Overview

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What are the different types of flexible batteries?

This review discusses five distinct types of flexible batteries in detail about their configurations, recent research advancements, and practical applications, including flexible lithium-ion batteries, flexible sodium-ion batteries, flexible zinc-ion batteries, flexible lithium/sodium-air batteries, and flexible zinc/magnesium-air batteries.

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 a flexible battery?

Different from the conventional batteries that utilize rigid and bulky electrodes, current collectors, metal anodes, liquid electrolytes, and packages, flexible batteries require the flexibility of each component to accommodate diverse shapes or sizes.

Are flexible batteries better than traditional lithium ion batteries?

Compared to traditional lithium-ion batteries, flexible batteries can better adapt to complex shape designs, making them widely applicable in wearable devices, smart homes, and more. Flexible batteries realize energy storage and release through special material selection and structural design.



## What are the types of flexible energy storage batteries



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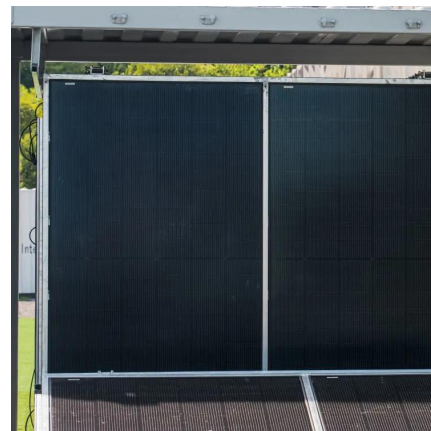


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