

Application of flexible energy storage devices





Overview

How can flexible energy storage systems advance wearable electronic device development?

To advance wearable electronic device development, this review provides a comprehensive review on the research progress in various flexible energy storage systems. This includes novel design and preparation of flexible electrode materials, gel electrolytes, and diaphragms as well as interfacial engineering between different components.

Can flexible energy storage devices be used as a power source?

Rapidly evolving devices are strongly pushing to develop flexible energy storage devices as a power source. Flexible energy storage devices based on an aqueous electrolyte, alternative battery chemistry, is thought to be a promising power source for such flexible electronics.

What are flexible aqueous energy storage devices for flexible electronics?

In this review, we focus on pioneering works of flexible aqueous energy storage devices for flexible electronics, covering the material designs for essential components of the energy devices such as active materials, current collectors, aqueous electrolyte, and separator membranes.

What are flexible energy storage devices (fesds)?

Consequently, there is an urgent demand for flexible energy storage devices (FESDs) to cater to the energy storage needs of various forms of flexible products. FESDs can be classified into three categories based on spatial dimension, all of which share the features of excellent electrochemical performance, reliable safety, and superb flexibility.



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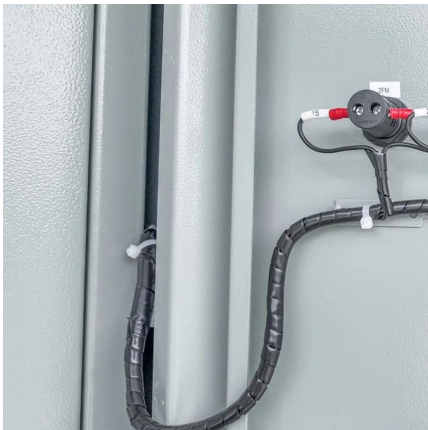
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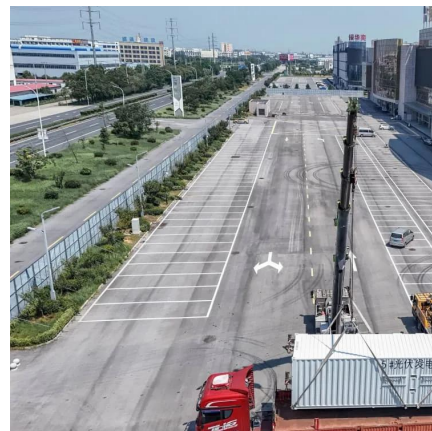
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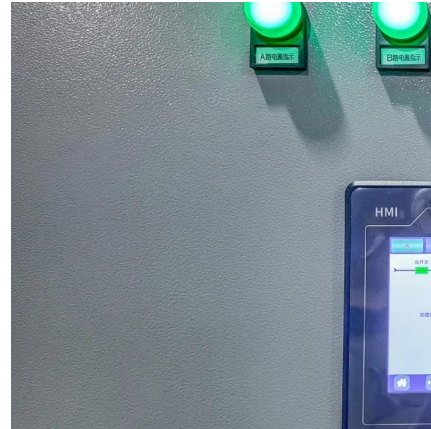
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