

# **Sodium battery home energy storage**





## Overview

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What is a sodium ion battery?

PowerCap has unveiled an innovative Sodium-ion Battery system tailored for home energy storage. This advancement offers a sustainable, safe, and cost-effective alternative to traditional Lithium-ion batteries. PowerCap, based in Queensland, has developed this technology to meet the growing demand for renewable energy solutions.

Are sodium ion batteries sustainable?

Sodium-ion batteries offer a cost-effective, safe, and environmentally friendly alternative to lithium-ion. While sodium-ion battery energy density is lower than lithium one, sodium-ion excels in affordability, safety, and sustainability—making it an excellent choice for residential use. What makes sodium-ion battery materials more sustainable?

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Are sodium ion batteries safe?

Sodium-ion batteries are cost-effective, safe, and sustainable, making them an excellent option for home energy storage. They provide reliable backup power with a long lifespan, low environmental impact, and compatibility with various renewable energy systems. Will I need to purchase additional cables or connectors for sodium battery?

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Are sodium-ion batteries good enough?

But sodium-ion batteries aren't far behind. Thanks to major advances in materials science, modern sodium-ion batteries are achieving up to 160 Wh/kg, compared to around 180–250 Wh/kg for lithium-ion. For everyday uses — like stationary storage, light transport and grid applications — sodium is more than good enough.



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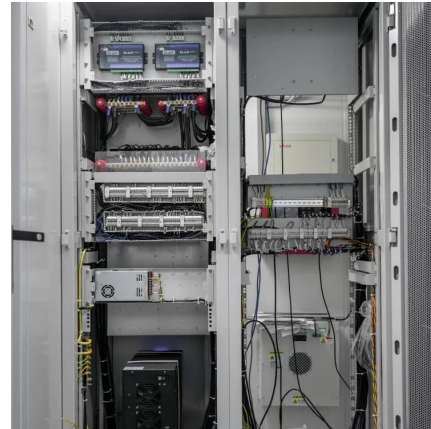


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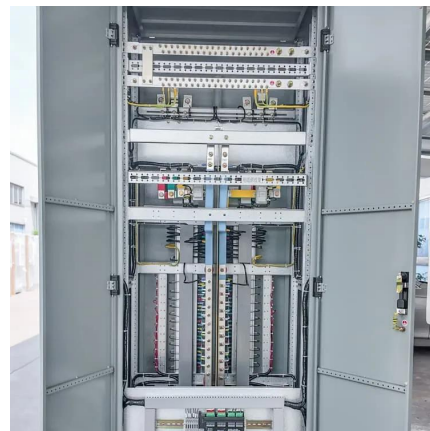


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