

# **Antimony electrode solar container battery**





## Overview

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Can antimony be used for energy storage?

Research which focused on DFT studies also showed the potential of monolayer Sb for LIB anodes in rechargeable batteries, which could provide relatively strong Li adsorption. In conclusion, antimony is a rare element on the planet, but it offers intriguing features when it comes to the needs of energy storage systems.

Are antimony-based solar cells a step forward?

The results represent a step forward in the development of antimony-based solar cells. Dong et al. achieve Sb<sub>2</sub>(S,Se)<sub>3</sub> solar cells with 10.7% efficiency by increasing charge generation with a textured electrode and reducing charge recombination and transport loss with a conformal electron-selective layer.

Are antimony selenosulfide solar cells efficient?

Provided by the Springer Nature SharedIt content-sharing initiative Antimony selenosulfide (Sb<sub>2</sub>(S,Se)<sub>3</sub>) solar cells suffer from charge carrier loss, which has limited the power conversion efficiency to around 10%.

Can antimony be used as an anode material for DIB full cells?

Among various anode materials, elements that alloy and dealloy with lithium are assumed to be prospective in bringing higher capacities and increasing the energy density of DIBs. In this work, antimony in the form of a composite with carbon (Sb-C) is evaluated as an anode material for DIB full cells for the first time.



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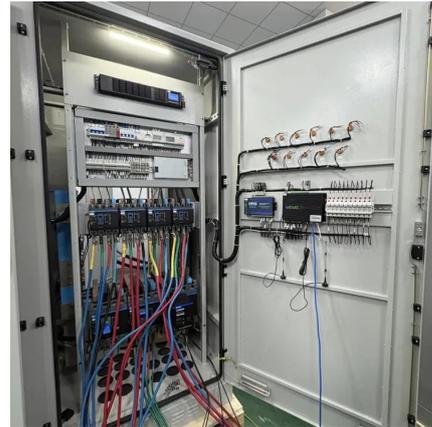
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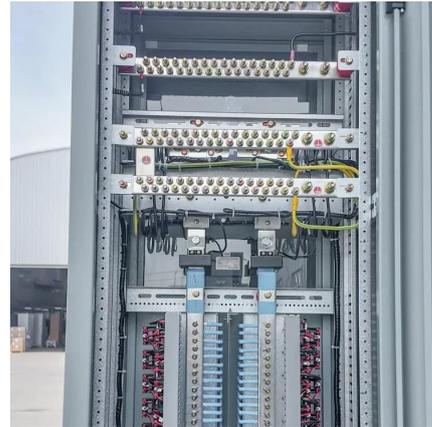
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