

# Fuel Cell Energy Storage Container





## Overview

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How do fuel cells work?

Fuel cells are electrochemical devices that convert chemical energy into electrical energy through a controlled redox reaction. They are distinct from batteries in that they require a continuous supply of fuel and oxidant (usually oxygen) to operate, while batteries store their energy internally.

What are the different energy storage devices?

The various energy storage devices are Fuel Cells, Rechargeable Batteries, PV Solar Cells, Hydrogen Storage Devices etc. In this paper, the efficiency and shortcoming of various energy storage devices are discussed. In fuel cells, electrical energy is generated from chemical energy stored in the fuel.

How can a fuel cell be more versatile?

**Fuel Flexibility:** Researchers are exploring the use of a wider range of fuels, including renewable sources like biogas and hydrogen derived from water electrolysis, to increase fuel cell versatility (12). Hydrogen is available in large amount, has a very high energy and burns without harmful emissions.

What is a hydrogen fuel cell?

Research is going on vehicles powered by hydrogen (13). As compared to a battery, a fuel cell has to be refilled constantly with an “energy-rich” substance, such as pure hydrogen in a hydrogen-oxygen fuel cell. In hydrogen fuel cell, electricity is generated when electrochemical process occurs on combination of hydrogen gas and oxygen.



## Fuel Cell Energy Storage Container

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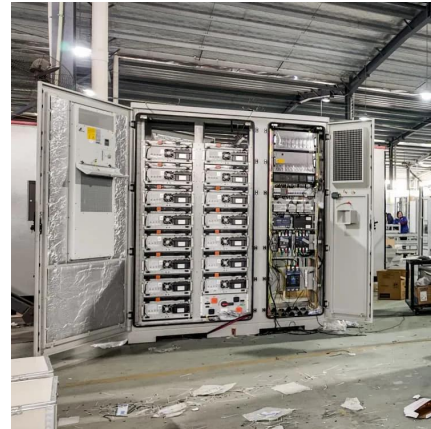
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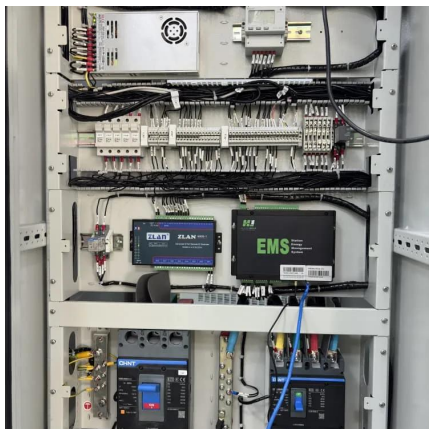
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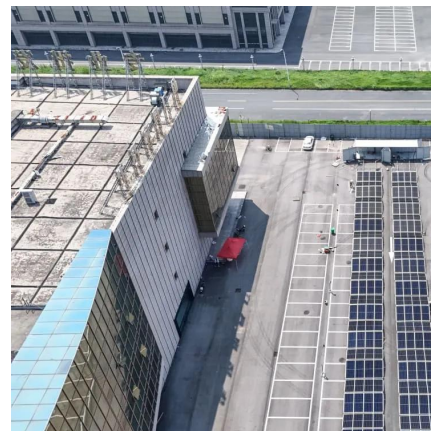
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