



MODERNIZATION SOLAR

# What substances does the lead-acid battery cabinet contain





## Overview

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What are the components of a lead acid battery?

A lead acid battery consists of several key components: Positive Plate: Made of lead dioxide ( $PbO_2$ ). Negative Plate: Made of sponge lead (Pb). Electrolyte: A solution of sulfuric acid ( $H_2SO_4$ ) and water. Separator: A material that keeps the positive and negative plates apart to prevent short-circuiting.

What materials should be used to make lead acid batteries?

Plates of Lead-Acid Batteries 3. Active Materials. Container of Lead-Acid Batteries: The materials of which the battery containers are made should be resistant to sulphuric acid, should not deform or become porous, or contain impurities deteriorous to the electrolyte; of these iron and manganese are especially intolerable.

How does a lead acid battery work?

The operation of a lead acid battery is based on a series of chemical reactions between the lead plates and the sulfuric acid electrolyte. Here's a simplified explanation of the process: When the battery discharges, the lead dioxide on the positive plate reacts with the sulfuric acid to form lead sulfate ( $PbSO_4$ ) and water.

What is a lead-acid battery made of?

1. Positive Plates (Lead Dioxide) The positive plates in a lead-acid battery are made from lead dioxide ( $PbO_2$ ), a compound that plays a critical role in the battery's electrochemical reaction. These plates are typically formed by applying a lead oxide paste to a grid structure made from lead.



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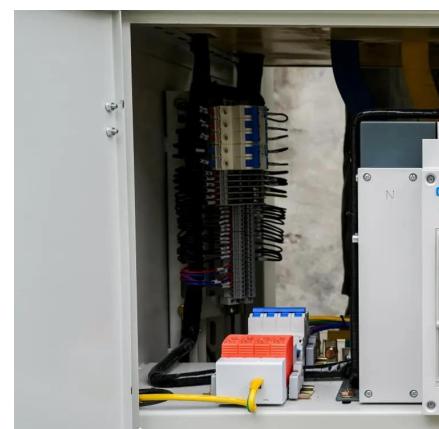


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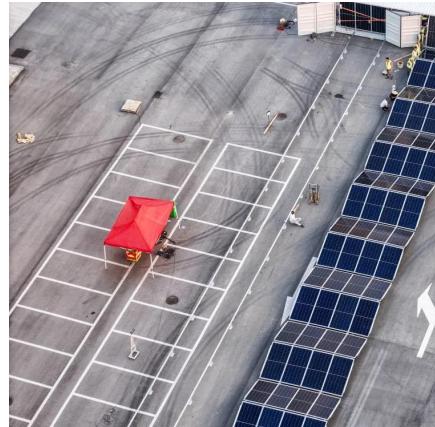
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