

# How to measure the quality of lead-acid batteries in solar container communication stations





## Overview

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How to determine the state of a lead-acid battery?

Since the internal resistance of sealed lead-acid batteries tends to increase sharply as deterioration progresses (1.5- to 2-fold increase from the initial value), the state of batteries can be determined by monitoring the trends in the data.

How to maintain a lead-acid battery?

To maintain a lead-acid battery in good condition over its entire life cycle, it is important to check the state of charge and overall health of the battery. Regular density checks with a hydrometer or digital hydrometer are a reliable way to monitor the state of charge and identify weak batteries.

How to determine the deterioration state of a battery?

The deterioration state of batteries can be determined by measuring the internal resistance and voltage between the terminals of sealed lead-acid batteries. Since the measurement data can be stored in the memory of the instrument, the data of multiple batteries installed in a cubicle can be easily saved to a PC.

What is sulfuric acid battery testing?

Sulfuric acid battery testing is important in quality control and involves checking the specific gravity of the battery acid solution. Learn more about how to test your lead acid batteries.



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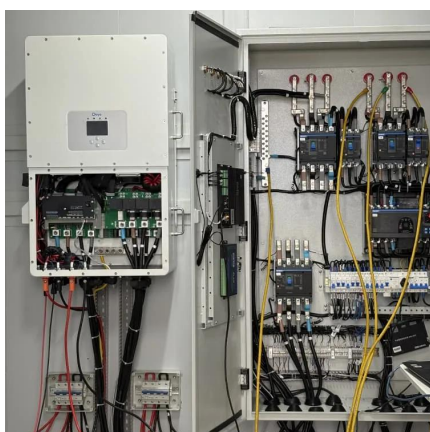


### [Sulfuric Acid Battery Testing for Lead-Acid Batteries](#)

Sulfuric acid battery testing is important in quality control and involves checking the specific gravity of the battery acid solution. Learn more about how to test your lead acid batteries.

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### [Lead-acid battery quality testing method](#)

Lead Acid Batteries Installation Method. The battery should be installed in a clean, dry area. Avoid placing in a place with poor performance, safety, and longevity. A solid battery testing procedure can help ...

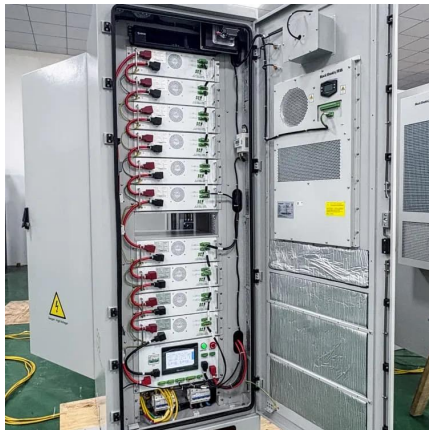
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The specific gravity of battery acid is a measure of the density of the electrolyte (sulfuric acid solution) in a lead-acid battery compared to the density of water.



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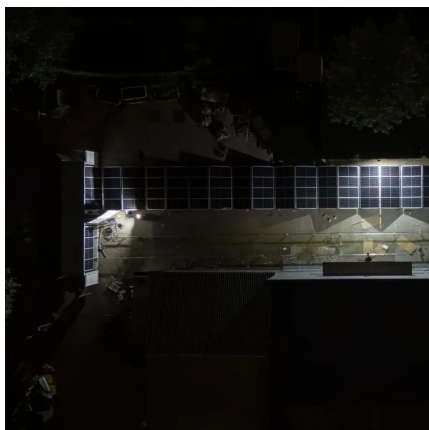


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## [Lead-acid Battery Handbook](#)

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