

# Lead-acid battery production 12v uninterruptible power supply





## Overview

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What is a lead acid battery?

Lead-acid batteries are the most common rechargeable battery type in the world, and in the U.S. 17% of the market share of lead-acid batteries is related to energy storage systems . In commercial UPSs, lead-acid batteries are dominant at various power ranges , , , , , , .

What are lead-acid batteries used for?

Among battery technologies, lead-acid batteries are widely used for energy storage in emergency supply systems, data centers, uninterruptible power supplies (UPS), and photovoltaic applications , , , .

What is an uninterruptible power supply (UPS)?

Uninterruptible power supplies (UPSs) provide energy to critical loads in the event of a power outage. During this event, batteries supply the load for a determinate amount of time, which can vary from a few minutes to several hours, depending on the load and battery capacity.

What are the disadvantages of a lead-acid battery?

The main disadvantage related to the use of lead-acid batteries is its degradation (aging), that occurs as a function of discharge cycles, depth of discharge, charging voltage, and ambient temperature , . Thus, the estimation of autonomy is a useful tool to anticipate problems related to energy supply.



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### DC UPS

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### [Lead-acid UPS, Lead-acid uninterruptible power supply](#)

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### [Battery autonomy estimation method applied to lead-acid batteries ...](#)

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