

# Principle of lead-acid power storage battery

Overview Sulfation and desulfation History Electrochemistry Measuring the charge level Voltages for common usage Construction Applications

Lead-acid batteries lose the ability to accept a charge when discharged for too long due to sulfation, the crystallization of lead sulfate. They generate electricity through a double sulfate chemical reaction. Lead and lead dioxide, the active materials on the battery's plates, react with sulfuric acid in the electrolyte to form lead sulfate. The lead sulfate first forms in a finely divided, amorphous state and easily reverts to lead, lead dioxide, and sulfuric acid when the battery rech...



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