

# Four similarities of base station lead-acid batteries





## Overview

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What is the difference between lithium-ion and lead-acid batteries?

Lead-acid batteries typically use heavy lead plates and sulfuric acid, while lithium-ion battery systems rely on lightweight lithium compounds and organic electrolytes, offering higher efficiency and energy stored. How does battery capacity compare between lead-acid and lithium-ion?

Are lithium-ion and lead-acid battery chemistries still used today?

However, despite the volume and diversity of new energy storage products, one thing remains constant: Lithium-ion and, to a lesser extent, lead-acid battery technologies continue to dominate the market. This article explains how these battery chemistries work and which common subchemistries are being used in the field today.

Are lithium batteries better than lead acid batteries?

Unlike lead acid batteries, lithium batteries, with their high energy density, efficiency, and longevity, are the superior choice for most modern uses, including EVs, solar storage, and e-bikes. For cutting-edge lithium-ion solutions, Trittek offers customized battery packs with smart BMS, ensuring reliability, safety, and global support.

What is the difference between lead acid and lithium ion?

Lead-Acid: Slow charging (6–12 hours), limited discharge rates. Lithium-Ion: Charges 3–5x faster (1–2 hours), supports high discharge rates. Example: Lithium-ion enables fast-charging EVs, while lead-acid suits low-power, slow-charge systems. Voltage and Capacity Lead-Acid: 2V per cell, requiring multiple cells for higher voltages.



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