

## Kongres Container

# Construction cost of lead-acid batteries for communication base stations in Iran



## Overview

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Taking the lead-acid battery pack of a 48V communication base station as an example, it is commonly configured with multiple 12V lead-acid batteries in series. This combination can provide a stable DC output voltage to meet the needs of communication equipment and transmission equipment in the base.

Telecom batteries usually use different types of batteries such as lead-acid batteries, Ni-MH batteries, lithium-ion batteries, etc., and their capacity and charging time and other parameters will vary according to specific use scenarios and needs. One of the primary uses of telecom base station.

The telecom base station sector relies on lead-acid batteries due to their cost-effectiveness, reliability, and adaptability to harsh environments. Expanding 4G and 5G infrastructure in emerging markets fuels demand, especially in regions like Africa and Southeast Asia. Operators prioritize backup.

Lead-acid telecom batteries have a cycle life of only 500-600 cycles. Cost: The initial cost of lead acid telecom batteries is lower than that of lithium ion batteries. However, lead-acid batteries typically have a lifespan of 3-5 years, while lithium-ion batteries have a lifespan of over 10 years.

The global market for lead-acid batteries in telecom base stations is experiencing robust growth, driven by the expanding 4G and 5G networks worldwide. The increasing demand for reliable backup power solutions in these stations, coupled with the relatively low cost and mature technology of.

North America leads with 40% market share, driven by streamlined permitting processes and tax incentives that reduce total project costs by 15-25%. Europe follows closely with 32% market share, where standardized container designs have cut installation timelines by 60% compared to traditional.

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