

# The backup power supply of the mobile base station is





## Overview

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Why do cellular base stations have backup batteries?

Abstract: Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, the backup batteries of 5G BSs have some spare capacity over time due to the traffic-sensitive characteristic of 5G BS electricity load.

Why is backup power important in a 5G base station?

With the rapid expansion of 5G networks and the continuous upgrade of global communication infrastructure, the reliability and stability of telecom base stations have become critical. As the core nodes of communication networks, the performance of a base station's backup power system directly impacts network continuity and service quality.

Which battery is best for telecom base station backup power?

Among various battery technologies, Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries stand out as the ideal choice for telecom base station backup power due to their high safety, long lifespan, and excellent thermal stability.

Why do cellular communication base stations need a battery alloc?

Current cellular communication base stations are facing serious problems due to the mismatch between the power outage situations and the backup battery supporting abilities. In this paper, we proposed BatAlloc, a battery allocation framework to address this issue.



## The backup power supply of the mobile base station is

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### Evaluating the Dispatchable Capacity of Base Station Backup Batteries

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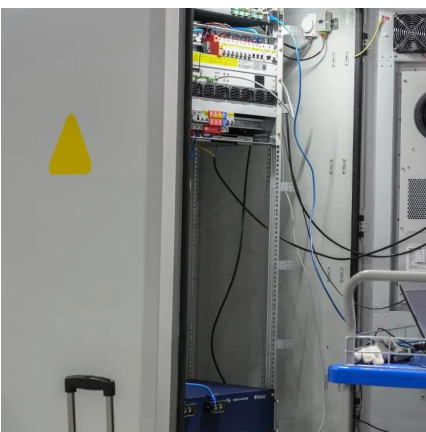
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1 Introduction 5G communication base stations have high requirements on the reliability of power supply of the distribution network. During planning and construction, 5G base stations are ...



[\(PDF\) Dispatching strategy of base station backup power supply](#)

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