

# **5g base station battery discharge**





## 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.

Do 5G BS batteries have a spare capacity?

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. Therefore, the spare capacity is dispatchable and can be used as flexibility resources for power systems.

What is 5G base station?

5G base stations (BSs), which are the essential parts of the 5G network, are important user-side flexible resources in demand response (DR) for electric power system. However, a 5G BS has little and difference dispatchable potential, how to make massive 5G BSs participate in DR conveniently is an urgent problem to be solved.

How much power does a 5G base station use?

Each nation has a different 5G strategy. For 5G, China uses 3.5GHz as the frequency. Then, a 5G base station resembles a 4G system, but it's on a much larger scale. For sub-6GHz in 5G, let's say you have a macro base station. The power levels at the antenna range from 40 watts, 80 watts or 100 watts.



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

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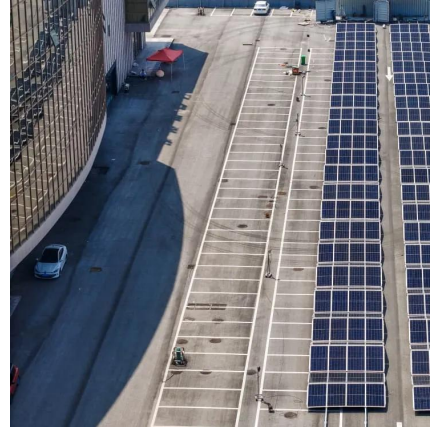
Nov 7, 2025 · These include capacity, voltage, discharge rate, cycle life, and environmental adaptability. In order to help you choose the best base station batteries for 5G applications, ...

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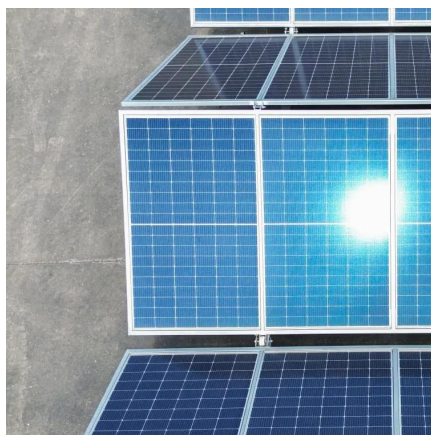
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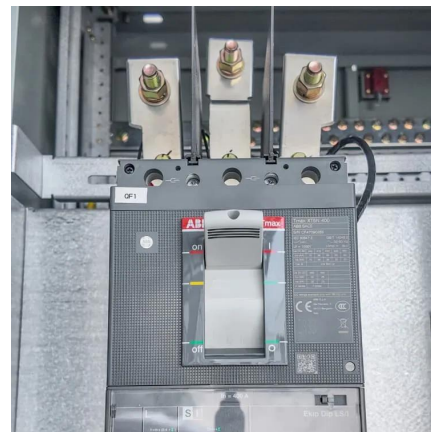


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EverExceed 5G Base Station Lithium Battery: Core Requirements and Insights Core Requirements for 5G Base Station Lithium Batteries Requirement Dimension 5G Macro ...



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### **An optimal dispatch strategy for 5G base stations equipped with battery**

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