

# Base station power supply battery power supply logic





## Overview

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Why do cellular base stations have backup batteries?

[. ] 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.

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.

What makes a telecom battery pack compatible with a base station?

Compatibility and Installation Voltage Compatibility: 48V is the standard voltage for telecom base stations, so the battery pack's output voltage must align with base station equipment requirements. Modular Design: A modular structure simplifies installation, maintenance, and scalability.

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.



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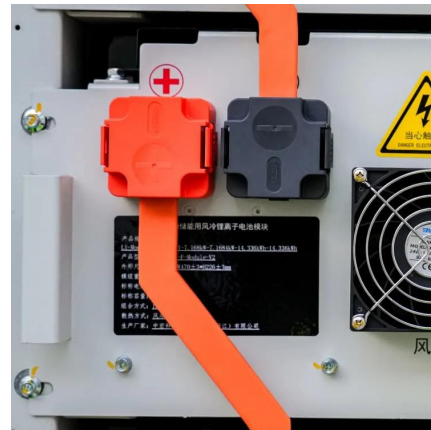


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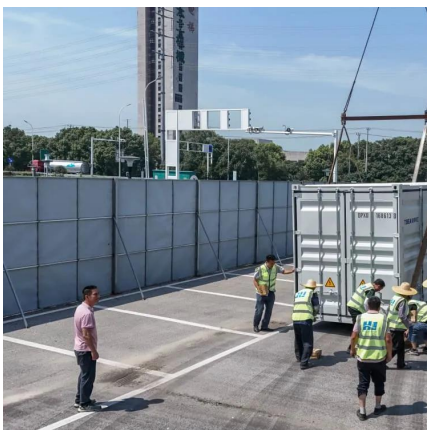
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