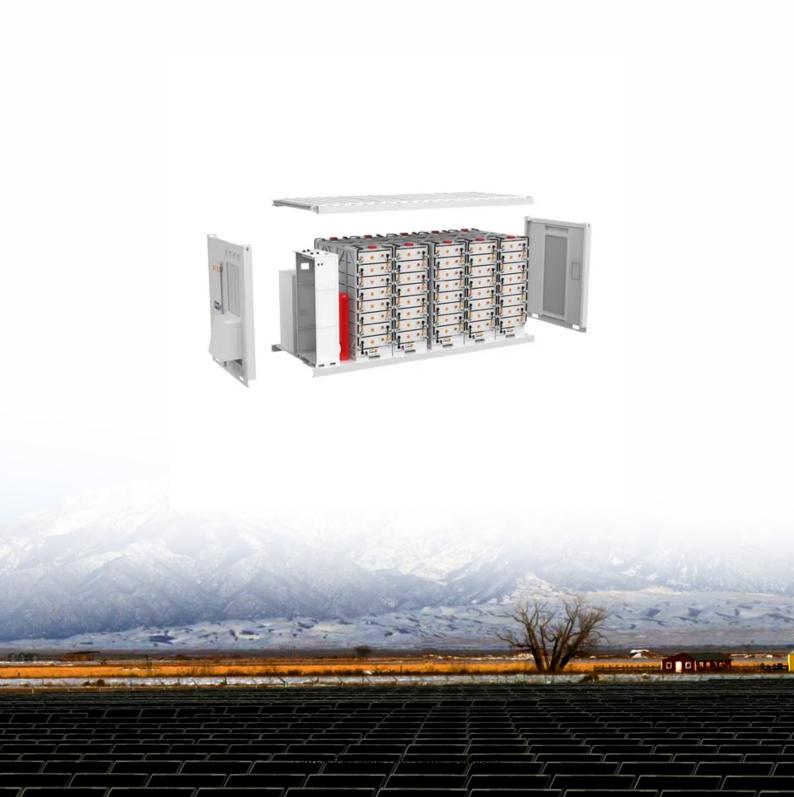


SolarTech Power Solutions

How to solve the power supply problem of base station





Overview

Do small cell base stations have a power consumption problem?

Abstract: 5G networks with small cell base stations are attracting significant attention, and their power consumption is a matter of significant concern. As the increase of the expectation, concern for the power consumption problem arises. To solve the problem, we propose a new dynamic power management method.

Why do base stations have a small backup energy storage time?

Base stations' backup energy storage time is often related to the reliability of power supply between power grids. For areas with high power supply reliability, the backup energy storage time of base stations can be set smaller.

Can base station energy storage participate in emergency power supply?

Based on the established energy storage capacity model, this paper establishes a strategy for using base station energy storage to participate in emergency power supply in distribution network fault areas.

What is the relationship between power supply reliability and backup time?

According to the inverse relationship between the power supply reliability of the distribution network and the backup time of the base station, the traditional base station energy storage model is modified to obtain a base station energy storage model that is affected by power supply reliability and base station communication volume.

Does a high power supply reliability increase base station energy storage capacity?

The case analysis done in this article verifies the effectiveness of the proposed method: places with high power supply reliability have more available base station energy storage capacity. Where traffic is high, less base station energy



storage capacity is available.

What factors affect the energy storage reserve capacity of 5G base stations?

This work explores the factors that affect the energy storage reserve capacity of 5G base stations: communication volume of the base station, power consumption of the base station, backup time of the base station, and the power supply reliability of the distribution network nodes.



How to solve the power supply problem of base station



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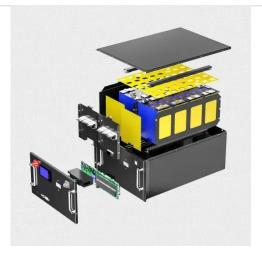


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