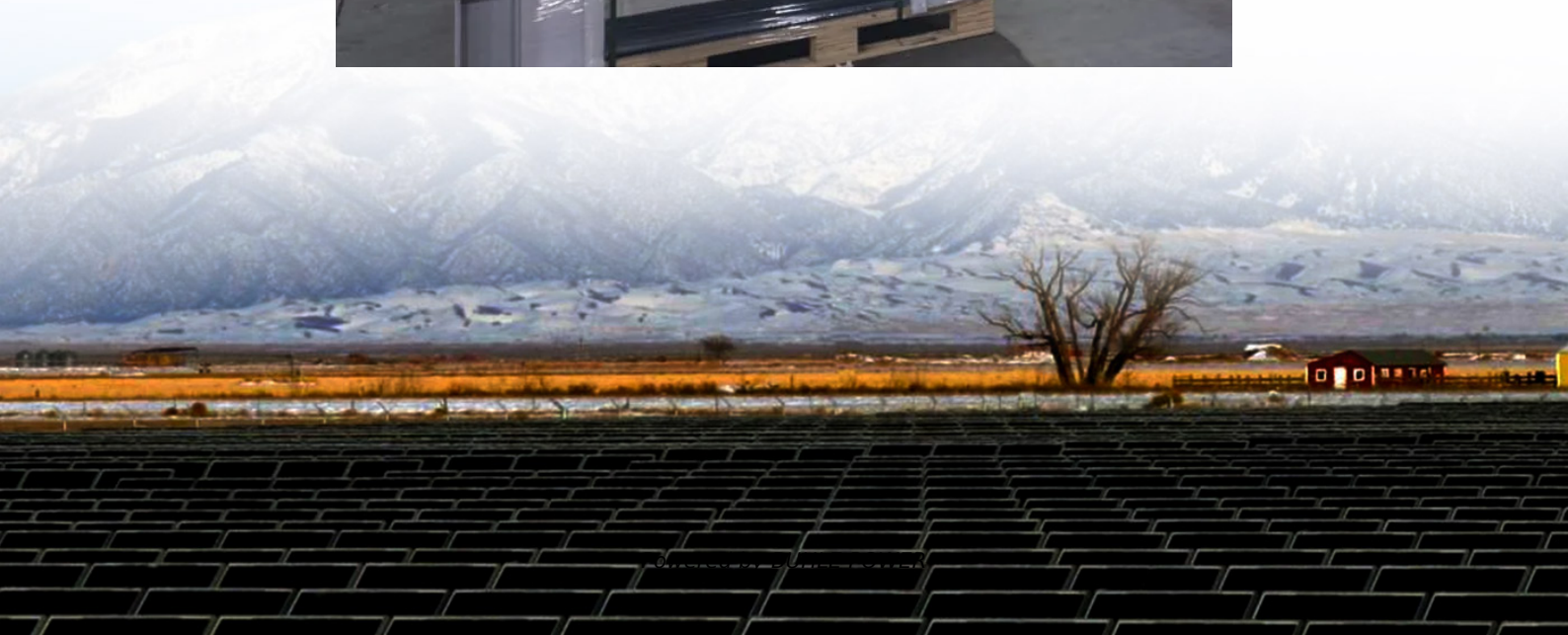


Mobile base station backup power supply function





Overview

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 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.

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.

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.



Mobile base station backup power supply function

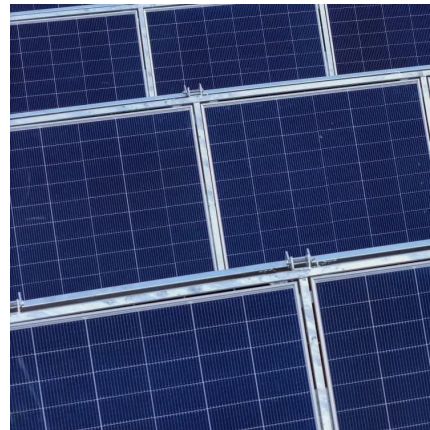


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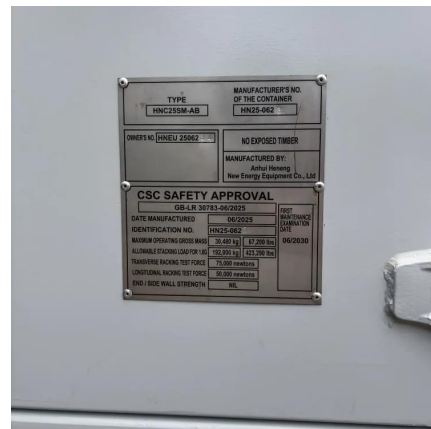
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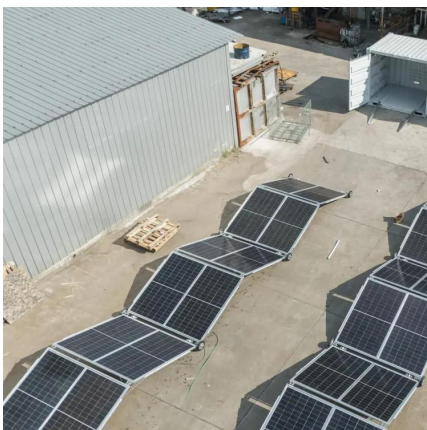
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