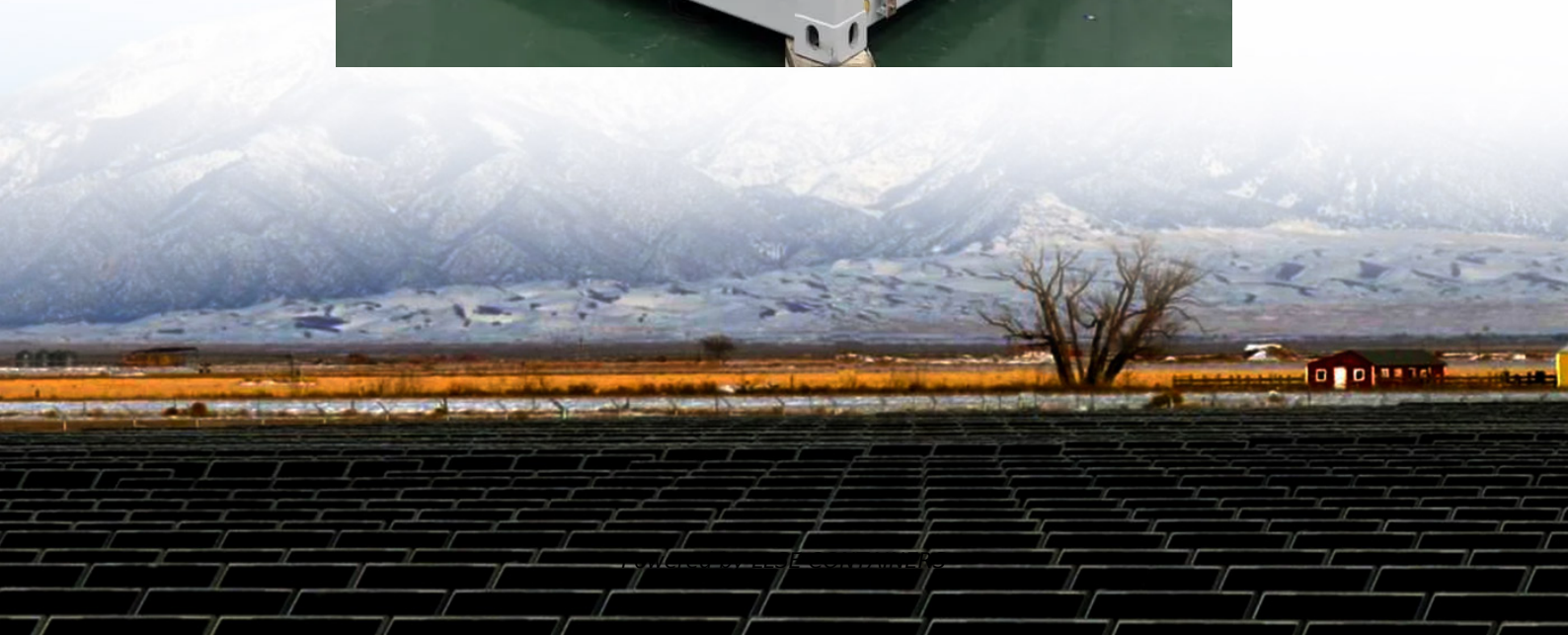


5g small base station power distribution components





Overview

What is a small cell in 5G?

Small cells are a new part of the 5G platform that increase network capacity and speed, while also having a lower deployment cost than macrocells. The compact size of a small cell requires that all components – especially power converters – provide high efficiency, better thermals and eventually the best power density possible.

How do small cells fit into the 5G ecosystem?

A cell tower (also called a macrocell) is a huge umbrella used to provide radio signals to thousands of users in large areas with minimal obstructions. To extend the coverage of a macrocell, distributive antenna systems (DASs) are used in conjunction with the cell tower.

What is a 5G Brain Center?

Often referred to as the brain center, this includes: Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System.

What is the trend in 5G radio applications?

The trend in 5G radio applications is to use higher frequencies and shorter wavelengths. Increasing the frequency increases the speed of sending/receiving signals and helps shrink the size of the antenna, which in turn shrinks the size of the cell.



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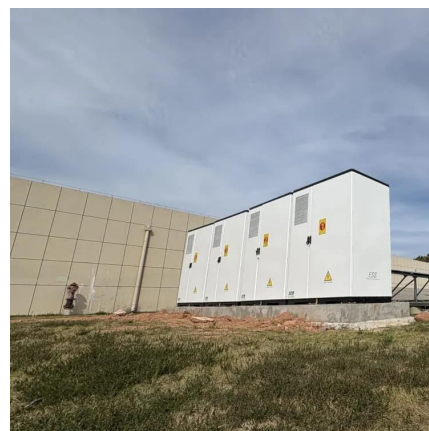


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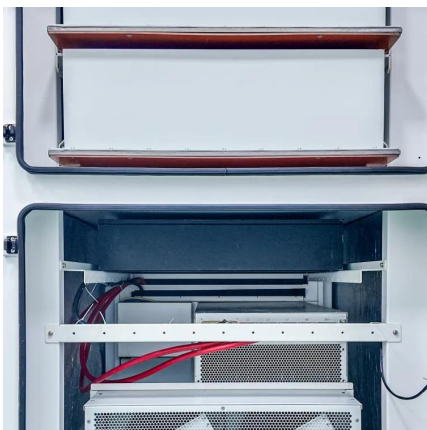
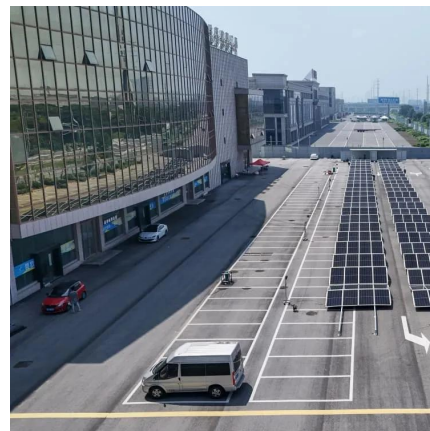
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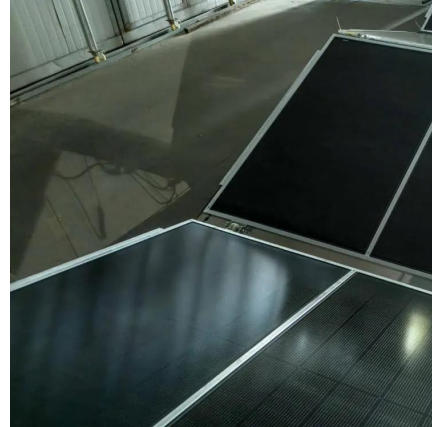
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