

Prague 5G small base station power distribution requirements





Overview

How much power does a 5G base station use?

The power radiated by mobile networks base stations transmitters in bands, which are (or will be) used for 5G technologies, is rather low (power delivered to 2G–4G base stations regular antennas is usually of a maximum 20 W, and in bands over 26 GHz will be lower than 1 W).

What frequencies will be used for 5G in Czechia?

Other bands, such as 66 - 71 GHz, will be also used by 5G. How far is Czechia with preparations?

Frequencies in the bands 700 MHz and 3.4 - 3.8 GHz needed for deployment of 5G networks have already been the subject of frequency auctions.

Where can I find information about 5G bands in Czechia?

Information about bands used by mobile networks can be found at spektrum.ctu.cz. New bands designated specifically for 5G include 700 MHz band or 26 GHz band, which will allow use of ultra-wideband channels. Other bands, such as 66 - 71 GHz, will be also used by 5G. How far is Czechia with preparations?

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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.



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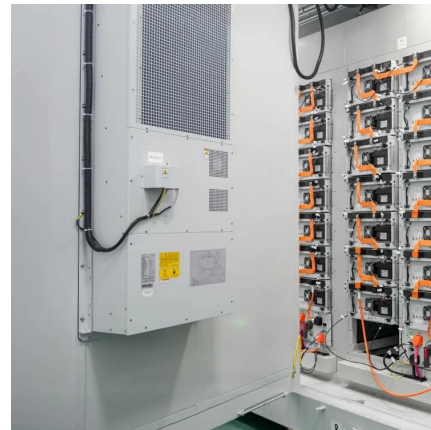


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Authored by: Alessandro Pevere, and Francesco Di Domenico, both at Infineon Technologies

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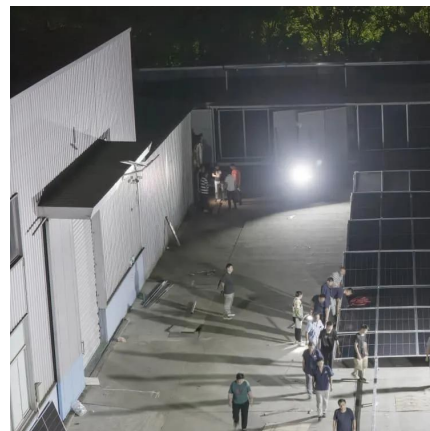
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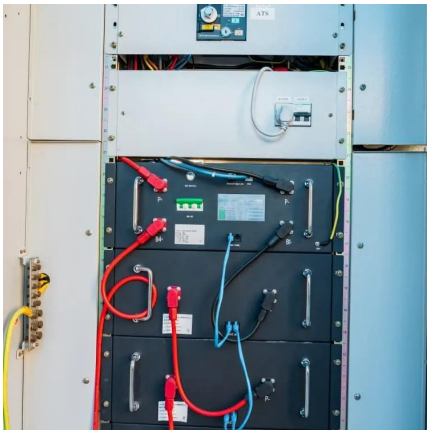
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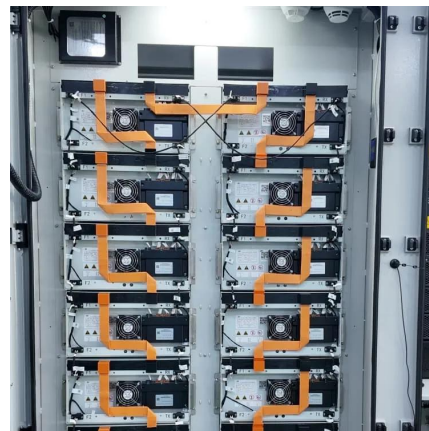


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