

ContainerPower Energy Solutions

What is the proportion of backup batteries in 5G base stations



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.

Do 5G BS batteries have a spare capacity?

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. Therefore, the spare capacity is dispatchable and can be used as flexibility resources for power systems.

How important is battery backup for a 5G node?

Customers will need to know the specific backup time available to execute a safe application shutdown without errors. Essentially - the Battery Backup (BBU) solution for 5G becomes even more critical. This means that the BBU for a 5G node requires: Enough power to shut down the node safely without data loss or corruption.

Can backup batteries reduce 5G BS electricity bills?

Case studies show that the proposed methodology can effectively evaluate the dispatchable capacity and that dispatching the backup batteries can reduce 5G BS electricity bills while satisfying the reliability requirement. References is not available for this document. Need Help?

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What is backup power in 5G HetNet?

Especially for the cloud radio access network (C-RAN) scenario with many

baseband units (BBUs) pooled together, it is natural and convenient to supply backup power for those BSs all together. The scenario of 5G HetNet consisting of macro and small cells, in which the backup power is supplied by battery groups.

Does BS load rate affect the power consumption of 5G networks?

the power consumption of AAU nearly linearly increases with the growth of BS load rate, while that of the BBU is quite stable at varying load rates. As the power consumption of 5G BSs is significantly higher than that of 4G BSs, we focus on the backup power allocation of 5G networks in this work.

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