

Base station battery online discharge





Overview

Why do cellular base stations have backup batteries?

[.] 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.

How does a battery group work in a base station?

The equipment in base stations is usually supported by the utility grid, where the battery group is installed as the backup power. In case that the utility grid interrupts, the battery discharges to support the communication switching equipment during the period of the power outage.

How long do base station batteries last?

After using BatAlloc to allocate suitable numbers of battery groups for base stations, the average battery lifetime has achieved to 4.3 years, roughly 1.8 times longer than that of the original allocation. The results indicate that our framework can also better protect base station batteries and significantly prolong their average lifetimes.

What happens if a base station has multiple battery groups?

When a base station is equipped with multiple battery groups, the impact of active-ties is actually shared by all these batteries. Then the impact on every single battery should be proportionally reduced. In practice, there may be other requirements that limit the number of battery groups being installed at a base station.



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Oct 1, 2015 · Therefore, in view of the coming Takayuki Tamura liberalization of the retail electricity market planned for 2016, we devised technologies for predictive and linked control ...

Can telecom lithium batteries be used in 5G telecom base stations?

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(PDF) Dispatching strategy of base station backup power ...

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Energy Storage for Communication Base

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