

SolarInnovate Energy Solutions

The life of backup power supply for telecommunication base stations



Overview

What is a telecom battery backup system?

A telecom battery backup system is a comprehensive portfolio of energy storage batteries used as backup power for base stations to ensure a reliable and stable power supply. As we are entering the 5G era and the energy consumption of 5G base stations has been substantially increasing, this system is playing a more significant role than ever before.

Should telecommunication operators invest in a telecom battery backup system?

Investing in a telecom battery backup system is always one of the priorities for telecommunication operators in the 5G era. Sunwoda 48V telecom batteries have a capacity covering 50Ah-150Ah, which can easily meet the power backup needs of macro and micro base stations.

Why do cellular communication base stations need a battery alloc?

Current cellular communication base stations are facing serious problems due to the mismatch between the power outage situations and the backup battery supporting abilities. In this paper, we proposed BatAlloc, a battery allocation framework to address this issue.

How many base stations and backup battery features are there?

In this paper, we closely examine the base station features and backup battery features from a 1.5-year dataset of a major cellular service provider, including 4,206 base stations distributed across 8,400 square kilometers and more than 1.5 billion records on base stations and battery statuses.

Can a battery group be used as a backup power supply?

In practice, the battery groups (either traditional lead-acid batteries or emerging lithium ones) are deployed as the backup power supply of BSs. In our scenario, one battery group could be shared by multiple BSs nearby to

exploit the statistical multiplexing gain, and the multiple BSs sharing the same battery group form a virtual cell (VC).

How long does a battery last in a cellular communication base station?

for a new battery cell. According to the industry standard, the battery used in cellular communication base station is designed to provide power supply for about 10 to 12 hours and we thus set to 10. The second low voltage disconnect

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Backup Battery Analysis and Allocation against Power ...

Jan 17, 2022 · Abstract--Base stations have been widely deployed to satisfy the service coverage and explosive demand increase in today's cellular networks. Their reliability and availability ...

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