

SolarInnovate Energy Solutions

Base station battery application status





Overview

What is the traditional configuration method of a base station battery?

The traditional configuration method of a base station battery comprehensively considers the importance of the 5G base station, reliability of mains, geographical location, long-term development, battery life, and other factors.

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 activi-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 sta-tion.

What makes a telecom battery pack compatible with a base station?

Compatibility and Installation Voltage Compatibility: 48V is the standard voltage for telecom base stations, so the battery pack's output voltage must align with base station equipment requirements. Modular Design: A modular structure simplifies installation, maintenance, and scalability.

How many battery groups does a base station have?

The original battery allocation result is largely skewed that over 65 percent base stations are equipped with only one battery group. Our framework considers both the base station situations and battery fea-tures, allocating 2



battery groups to most base stations and 3 or 4 battery groups to those with long-time power outages.

What happens when a base station is in active state?

1) When the base station is in active state, its power loss Pactive consists of transmitting power Ptx and inherent power Pfix. With an increase in the communication load of the acer station, the corresponding transmitting power Ptx increases linearly.



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