



LLSE CONTAINERS

Mobile base station battery structure





Overview

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 many battery groups are in a mobile network base station?

Fig. 1a shows two lead-acid battery groups in a mobile network base station and each battery group contains 24 cell batteries (the rated voltage of each battery cell is 2v). The rated capacity of a battery group is usually 500 AH and it can support about 10-12 hours (i.e., the reserve time of a battery group is 10-12 hours).

What is a base station power system?

The base station power system serves as a continuous "blood supply pump station," responsible for AC/DC conversion, filtering, voltage stabilization, and backup power. Its purpose is to ensure the uninterrupted operation of base station equipment.

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.



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Basic components of a 5G base station

Download scientific diagram , Basic components of a 5G base station from publication: Evaluating the Dispatchable Capacity of Base Station Backup Batteries in Distribution Networks , Cellular ...



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