
Mobile Base Station Power Emergency Plan

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).

Can a base station predict a power outage?

Though each single power outage of one given base station is truly hard to predict precisely, the statistical long-term power outage trends (e.g., in every year) can have a very similar pattern (e.g., a base station built in cold area may suffer from several power outages due to the heavy snow every year).

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.

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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Battery groups are installed as backup power in most of the base stations in case of power outages due to severe weathers or human-driven accidents, particularly in remote ...

In the foreseeable future, 5G networks will be deployed rapidly around the world, in cope with the ever-increasing bandwidth demand in mobile network, emerging low-latency ...

A base station consists of antennas, radio transceivers, power units, batteries, backup generators, network access modules, and ...

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We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results ...

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