

Kongres Container

Is the 5G communication base station flow battery big



Overview

How many 5G base stations are there?

In this region, it is assumed that there are 10 5G communication base stations, including 4 in residential areas and 6 in commercial areas. Each communication base station uses a set of 200Ah·48V batteries. The initial capacity residual coefficient of the standby battery is 0.7, and the discharge depth is 0.3.

What are the components of a 5G base station?

Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes:.

How does the power load of a 5G base station affect communication load?

Therefore, the variation of the power load of the 5G base station is closely related to the communication load. It is divided into two kinds of structure, the one that doesn't change is the first structure, such as lighting and air conditioning load; due to the communication load. The second structure of the power load is proportional to the flow.

Do 5G BS batteries have a spare capacity?

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. Therefore, the spare capacity is dispatchable and can be used as flexibility resources for power systems.

Why do cellular base stations have backup batteries?

Abstract: 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 many batteries does a communication base station use?

Each communication base station uses a set of 200Ah·48V batteries. The initial capacity residual coefficient of the standby battery is 0.7, and the discharge depth is 0.3. When the mains power input is interrupted, the backup battery is used to ensure the uninterrupted operation of communication devices.

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