Solar Storage Container Solutions

Application for relocation of uninterrupted power supply to Pyongyang communication base station

Overview

What is the relationship between power supply reliability and backup time?

According to the inverse relationship between the power supply reliability of the distribution network and the backup time of the base station, the traditional base station energy storage model is modified to obtain a base station energy storage model that is affected by power supply reliability and base station communication volume.

Why do base stations have a small backup energy storage time?

Base stations' backup energy storage time is often related to the reliability of power supply between power grids. For areas with high power supply reliability, the backup energy storage time of base stations can be set smaller.

How to determine backup energy storage capacity of base stations?

For the determination of the backup energy storage capacity of base stations in different regions, this paper mainly considers three factors: power supply reliability of the grid node where the base station is located (grid node vulnerability), the load level of the grid node and communication load.

Can 5G base station energy storage be used in emergency restoration?

The massive growth of 5G base stations in the current power grid will not only increase power consumption, but also bring considerable energy storage resources. However, there are few studies on the feasibility of 5G base station energy storage participating in the emergency restoration of the power grid.

Does a high power supply reliability increase base station energy storage capacity?

The case analysis done in this article verifies the effectiveness of the proposed method: places with high power supply reliability have more available base station energy storage capacity. Where traffic is high, less base station energy

storage capacity is available.

How is a backup energy storage model established?

The backup energy storage model of the base station is established by combining the node vulnerability, load level and the communication volume of the corresponding area. The energy storage output range of the base station is finally determined.

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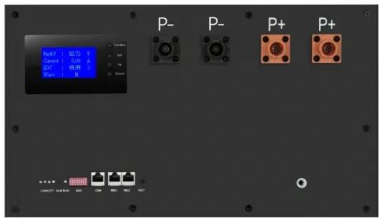

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