

Composition of communication power base station system





Overview

What is a communication base station?

Communication base station setups will usually include a wide array of different technologies, including power supplies, data servers, head end, radio repeaters, and communication systems that allow for high-speed continuous information flow. It can also be used as part of a leaky feeder system in the communication network.

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.

What are the components of base station?

A base station in digital communication consists of two main components: the transceiver and the controller. The transceiver manages the radio-link protocols, while the controller serves as the connection between the station and the switching centre.

How does a base station reserve energy storage model work?

Compared with the situation without considering the communication traffic, the base station reserve energy storage model considering dynamic changes reduces the peak load of the region by 3.65 %, the difference between the peak and trough of the load curve by 10.59 %, and the sum of load changes at adjacent moments by 17.50 %.



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