

Introduction to communication base station power supply equipment and functions

What are the components of a base station?

Power Supply: The power source provides the electrical energy to base station elements. It often features auxiliary power supply mechanisms that guarantee operation in case of lost or interrupted electricity, during blackouts. **Baseband Processor:** The baseband processor is responsible for the processing of the digital signals.

What is a base station power cabinet?

The base station power cabinet is a key equipment ensuring continuous power supply to base station devices, with LLVD (Load Low Voltage Disconnect) and BLVD (Battery Low Voltage Disconnect) being two important protection mechanisms in the power cabinet.

What is a Blvd threshold for a communication base station?

Assume the rated voltage of a communication base station's battery is 48V, with the BLVD threshold set to 42V. When the mains power fails and the battery starts supplying power, the power system continuously monitors the battery voltage through the voltage detection circuit.

What ancillary equipment does a base station need?

In addition to the antenna, radio unit, and BBU, traditional base stations typically include various ancillary equipment such as power supplies, cooling systems, and physical infrastructure for housing and protecting the components. The advent of Active Antenna Units (AAUs) marked a paradigm shift in base station architecture.

Why are base stations important?

In modern communication networks, base stations, as core infrastructure, are crucial for stable operation.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

In addition to the antenna, radio unit, and BBU, traditional base stations typically include various ancillary equipment such as power supplies, cooling systems, and physical infrastructure for ...

The base station power system is one of the supporting systems for mobile main equipment and transmission equipment, involving a variety of professional disciplines such as power ...

Introduction to communication base station power supply equipment and functions

Web: <https://edukacja-aktywna.pl>

