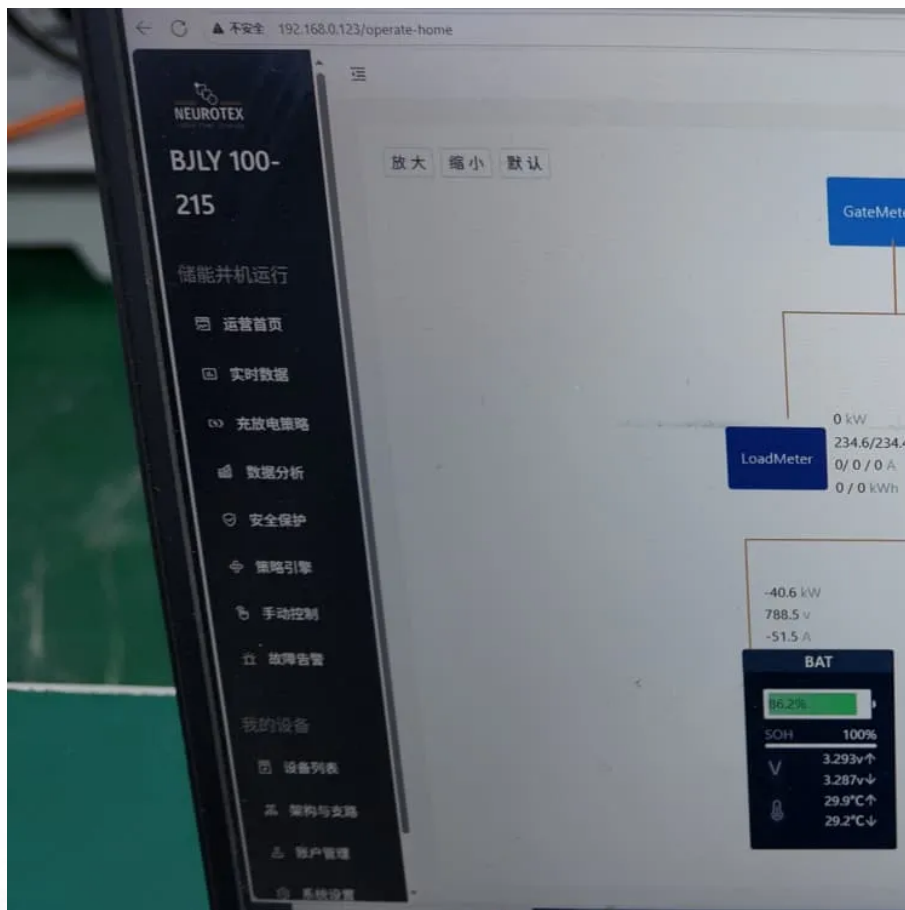


Base station power supply layout plan





Overview

What is a base station power supply?

This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes: AC distribution box: Distributes mains power and offers surge protection. Switch-mode power supply: Converts and stabilizes power while managing DC output. Battery banks: Serve as backup power to keep systems running during outages. 3.

How much power does a base station draw?

VII. POWER DRAWN BY BTS Table 2: Power Drawn by different Base Stations
Type of Base Station Power Consumption (may vary with local conditions)
GSM Base Station 2/2/2 600-1800W GSM Base Station 4/4/4 900 – 2300W
UMTS Node B Macro/Fiber 2/2/2 750 – 1000W Macro/Fiber — 4/4/4 1300 – 1700W VIII.

What is a base station connection diagram?

The connection diagram provides a clear overview of how the main base station equipment operates within the network. Surrounding this central "brain" are the “Four Guardians” that ensure seamless functionality: Power Supply: Provides a steady and uninterrupted energy source to keep the equipment operational.

What does a base station do?

The base station, positioned between users and data centers, is the first responder to user requests. It relays signals efficiently, ensuring users stay connected. This image highlights the compact but comprehensive nature of base stations, showcasing their integration of protective enclosures, power systems, and antennas. 3.



Base station power supply layout plan

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Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost controller with an I²C digital interface designed ...

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