

Huawei communication base station power supply function





Overview

The DBS3900 can control the power-on/off of boards through software, disabling of RF channels through software, voltage adjustment of PA power supply, and the rotation speed of the fan. This enable adjustment of power requirements based on the actual traffic load, thus reducing power consumption. What is a Huawei base station?

Let's dive into a technical explanation. A base station, also known as an eNodeB (for 4G LTE) or gNodeB (for 5G NR) in Huawei's terminology, is a piece of equipment that facilitates wireless communication between user equipment (UE) like smartphones, tablets, and IoT devices, and the core network of the telecommunications provider.

What is a base station Power Supply Unit (PSU)?

Power Supply Unit (PSU): This provides the necessary electrical power to operate the base station components. It ensures that all parts of the base station have a consistent and reliable power source. Backhaul Interface: This is the connection between the base station and the core network.

What systems does Huawei offer?

Huawei provides comprehensive management and control systems, such as Huawei's U2000 or Huawei's Cloud BTS. These systems enable operators to monitor, configure, and manage base stations remotely, ensuring optimal network performance and reliability.

How to choose a power supply system for a communications station?

The power supply system should meet the needs of the communications station, and its cabling should be as simple as possible to facilitate operation and maintenance. The low-voltage AC power supply system should use 3-phase 5-wire or 1-phase 3-wire for power supply.

How to choose a power supply system?



The AC power supply system that consists of mains, uninterruptible power supply (UPS), and self-provided generators should supply power in centralized mode. The power supply system should meet the needs of the communications station, and its cabling should be as simple as possible to facilitate operation and maintenance.

What is a base station antenna system?

Antenna System: At the heart of a base station is the antenna system. This system radiates and receives radio frequency (RF) signals to and from mobile devices.



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[DBS5900 Distributed Base Stations -- Huawei Enterprise](#)

It provides wireless access functions, including air interface management, access control, mobility control, and user resource allocation. The DBS5900 can meet the needs of industry users for ...

[Huawei Communication Base Station Power Supply Unit R4850N1](#)

The R4850N1 is a digital rectifier that converts the 85~300VAC to 53.5 VDC and possesses the characters of high efficiency, high power density, walk-in start, hot-plug, complete protection, ...



[Communication Base Station Telecom Power Supply Unit Huawei ...](#)

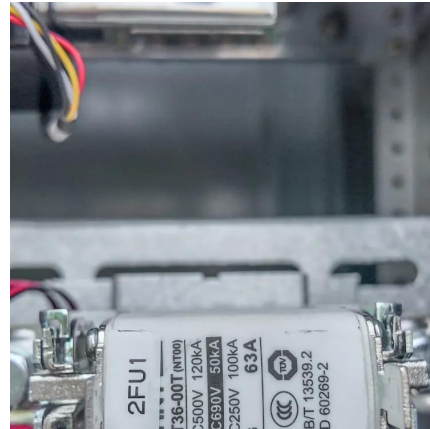
With advantage of features like compact size, easy to install, compatible with battery rack stacking and standard open rack, excellent function of BMS, intelligence dormancy and remote ...

[DBS5900 Distributed Base Stations -- Huawei Enterprise](#)

The distributed architecture is adopted to separate the RF unit part of the base station from the baseband unit part, connecting the two



parts through optical fiber, which minimizes the feeder ...



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