

# **Briefly describe the composition of base station power supply equipment**





## Overview

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The integrated system consists of outdoor cabinets, UPS uninterruptible power supply, battery pack, power distribution units. 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.

What are the components of a base station?

The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices. The block diagram of a base station typically includes the following key components: Baseband Processor: The baseband processor too deals with different communication protocols and interfaces with mobile network infrastructure.

What is a base station?

The base station is a transceiver and acts as an interface between a mobile station and network using microwave radio communication. It consist of three part elements: one or more transceivers, several antenna mounted on a tower or building, power system, and air conditioning equipment.

How much power does a base station have?

Maximum base station power is limited to 38 dBm output power for Medium-Range base stations, 24 dBm output power for Local Area base stations, and to 20 dBm for Home base stations. This power is defined per antenna and carrier, except for home base stations, where the power over all antennas (up to four) is counted.



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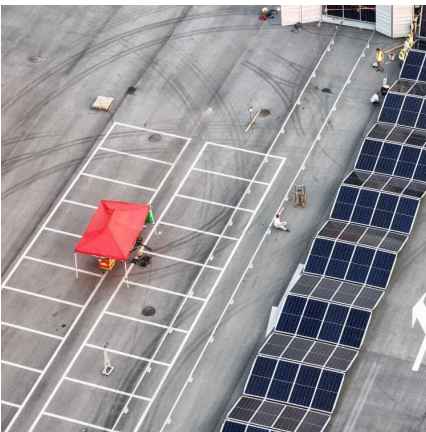
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