

ContainerPower Energy Solutions

Regulations on Power Supply Construction for Communication Base Stations



Overview

What is the maximum base station Power?

Maximum base station power is limited to 24 dBm output power for Local Area base stations and to 20 dBm for Home base stations, counting the power over all antennas (up to four). There is no maximum base station power defined for Wide Area base stations.

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.

What is a base station power system?

The base station power system serves as a continuous "blood supply pump station," responsible for AC/DC conversion, filtering, voltage stabilization, and backup power. Its purpose is to ensure the uninterrupted operation of base station equipment.

How many transceivers does a base station have?

It consist of three part elements: one or more transceivers, several antenna mounted on a tower or building, power system, and air conditioning equipment. A base station can have between 1 and 16 transceivers, depending on geography and the demand for service of an area.

How can the electronic industry reduce power requirements for base stations?

As a result, the electronic industry is exploring new methods to reduce the power requirements for the electronic equipment used in the base stations. The first approach is to make the base stations more tolerant to heat which will then require less power for air conditioning.

What are RF requirements for a base station?

In the base station specifications, there is one set of RF requirements that is generic, applicable to what is called “general purpose” base stations. This is the original set of UTRA requirements developed in 3GPP release 99. It has no restrictions on base station output power and can be used for any deployment scenario.

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