

Kongres Container

What is the appropriate power consumption for a base station outdoor cabinet



Overview

The antenna output power level is typically between 20 watts and a few hundred watts for an outdoor base station. 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 base station Power?

Base station power refers to the output power level of base stations, which is defined by specific maximum limits (24 dBm for Local Area base stations and 20 dBm for Home base stations) and includes tolerances for deviation from declared power levels, as well as specifications for total power control dynamic range. How useful is this definition?

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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.

What is a Longxing outdoor power cabinet?

LongXing outdoor power cabinet provides flexible size options, offers the ideal enclosure solution to build the whole base station inside.

How to calculate base station power consumption per unit area?

The base station power consumption per unit area is given by: where λ a, P a,

P_s , ρ , and θ are the base station density in sleep mode, the active mode power, the sleep mode power, the traffic load, and the ratio between sleep mode and active mode power, respectively.

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.

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