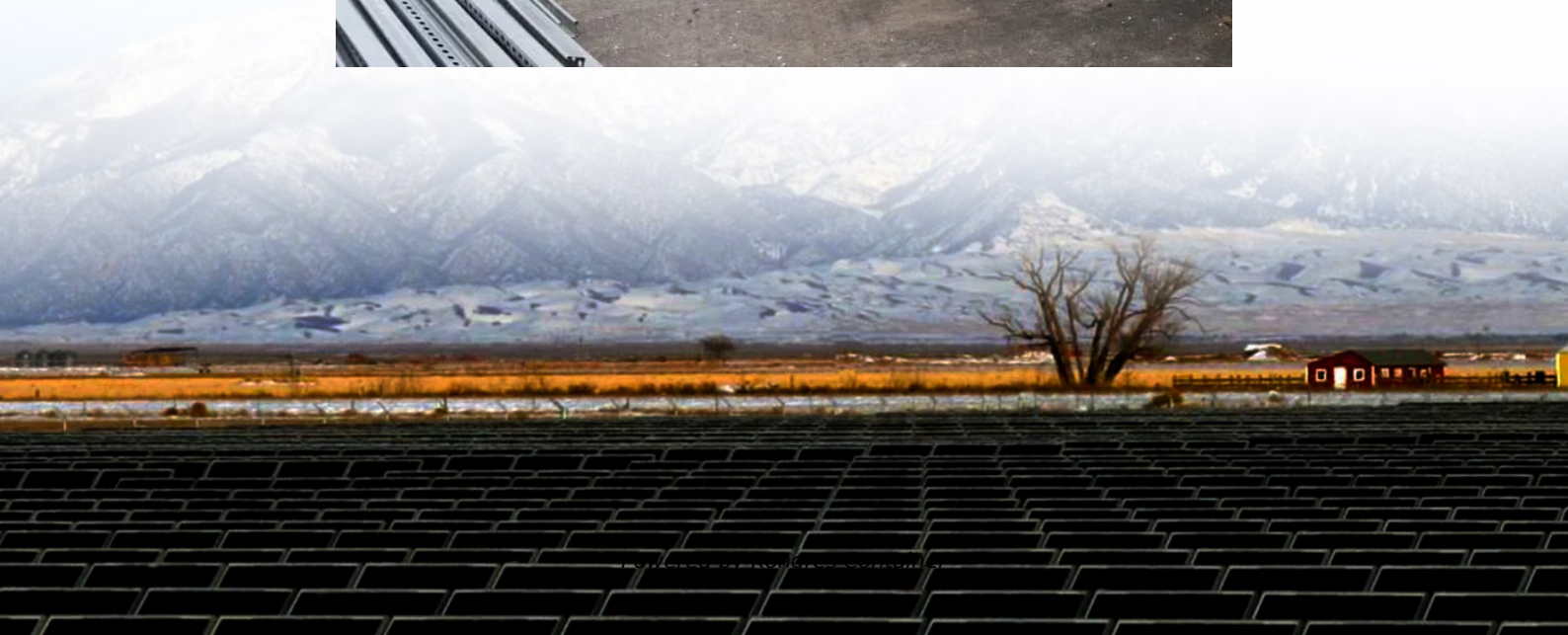


Kongres Container

Base station power AC input and output



Overview

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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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 & a PV powering Unit?

The base station uses radio signals to connect devices to network as a part of traditional cellular telephone network and solar powering unit is used to power it. The PV powering unit uses solar panels to generate electricity for base stations in areas with no access to grid or areas connected to unreliable grids.

How does a base station work?

Depending on the size of base station and its traffic, the base station may also have another sources of power such as a diesel generator, wind turbine or biofuels. The base station is a transceiver and acts as an interface between a mobile station and network using microwave radio communication.

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 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.

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