

ContainerPower Energy Solutions

How to use the base station power module

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Overview

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.

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 are the components of a base station?

Power Supply: The power source provides the electrical energy to base station elements. It often features auxiliary power supply mechanisms that guarantee operation in case of lost or interrupted electricity, during blackouts. **Baseband Processor:** The baseband processor is responsible for the processing of the digital signals.

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 solar-powered base station?

A solar-powered base station as shown in Fig. 5.14 consists of a PV powering unit, a base station and a cooling 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.

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.

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