

How much current does the mobile base station power supply have





Overview

What is a communication base station power supply?

Communication base station power supply in the tower room power supply system is an essential and important part of the mobile communication network. The current communication power supply voltage level is divided into DC-48V (+24V), AC 220/380V. Communication industry equipment generally use -48V DC power supply, positive grounding, why?

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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.

How much power does a cellular base station use?

A cellular base station can use anywhere from 1 to 5 kW power per hour depending upon the number of transceivers attached to the base station, the age of cell towers, and energy needed for air conditioning. Cellular base stations use power without any interruption and also needs maintenance.

Why do communication base stations use -48V power supply?

Communication base stations use -48V power supply for most historical reasons. Historically, the communications industry equipment has been using -48V DC power supply. -48V is also known as positive ground.



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