WALMER ENERGY

Heat dissipation principle of base station communication equipment

Overview

Can air distribution improve the temperature control effect of communication equipment?

The air distribution in the cabinet can be further optimized to improve the temperature control effect of communication equipment and reduce the energy consumption of cooling system. This study has certain reference value for temperature control of communication equipment and energy saving of base station cooling system. 1. Introduction.

What is the energy saving rate of communication base station cooling system?

In the outdoor daily temperature range of 24–28 ℃, 28–32 ℃, 32–36 ℃, 36–40 ℃, the energy saving rate of the unit is 67.3 %, 65.2 %, 39.6 %, 6.9 %, respectively, which reduces the energy consumption of the communication base station cooling system to different degrees. Fig. 11. Average power and energy saving rates for different temperature ranges.

Does a 5G base station have heat dissipation?

Currently, the majority of research concerning heat dissipation in 5G base stations is primarily focusing on passive cooling methods. Today, there is a clear gap in the literature in terms of research investigations that tend to quantify the temperature performances in 5G electronic devices.

Can separated heat pipe system be used in data center heat dissipation?

Tao Ding et al (Ding et al., 2016). studied the application of separated heat pipe system in heat dissipation of data center, and tested the operating performance and free cooling service time of the system in summer, winter and cross season.

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