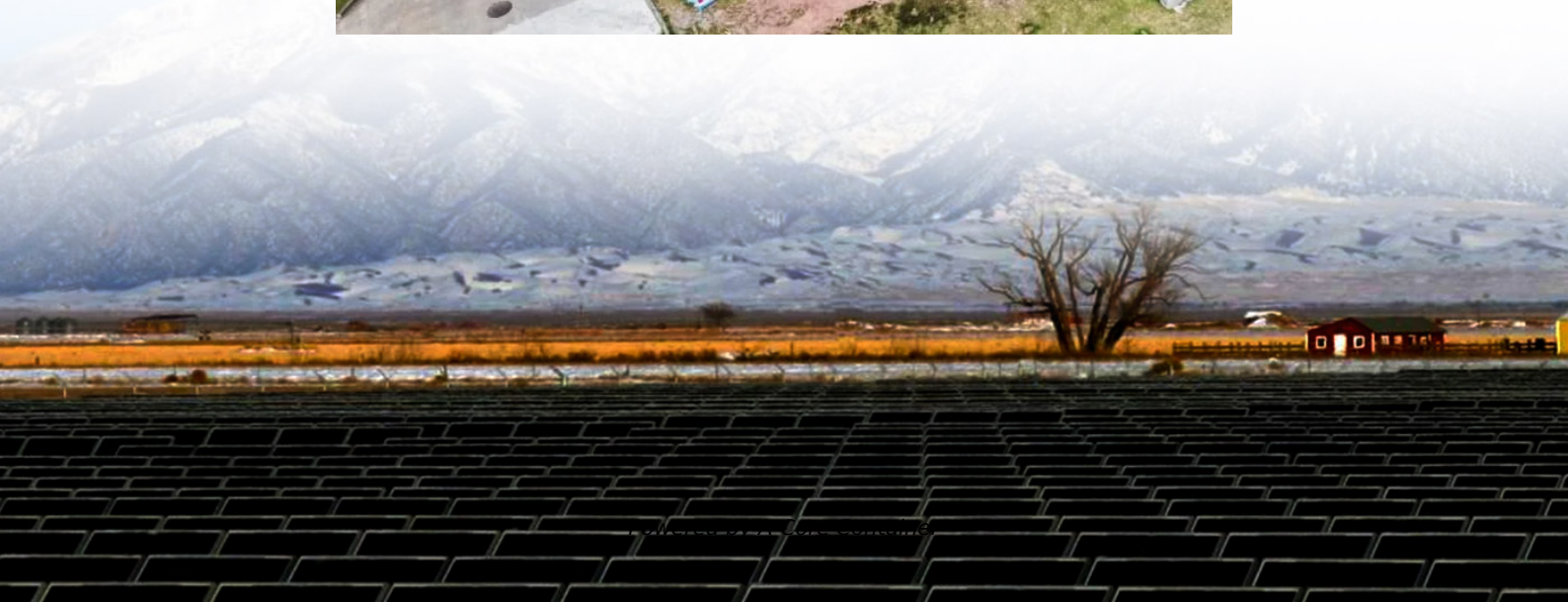


A-Core Container

Base station communication power supply temperature



Overview

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

In the outdoor daily temperature range of 24–28 °C, 28–32 °C, 32–36 °C, 36–40 °C, 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.

What is the temperature of a mobile communication base station?

(1) is 38.5 °C, which is lower than 40 °C, and meets the temperature control requirements of GB/T 51216 2017 "Technical Standard for Energy Conservation in Mobile Communication Base Station Engineering".

What is a composite cooling unit for communication base station?

In order to solve the outstanding problems of communication base station, a composite cooling unit of heat pipe and vapor compression air conditioner for communication base station was developed.

Do base station air conditioners save energy?

Compared to traditional base station air conditioners, the proportion of air conditioners operating has been reduced to a certain extent, which not only reduces their operating power consumption and increases the energy saving rate, but also increases the service life of the air conditioners. Fig. 10.

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 operating temperature of a regulated BBU?

Under extreme high temperature conditions, the average operating temperature of the unit's regulated BBU was 38.5 °C and the maximum outlet air temperature was 49.1 °C, both of which met the requirements of the relevant standards, ensuring the safe operation of the BBU and without high temperature alarms throughout the year.

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