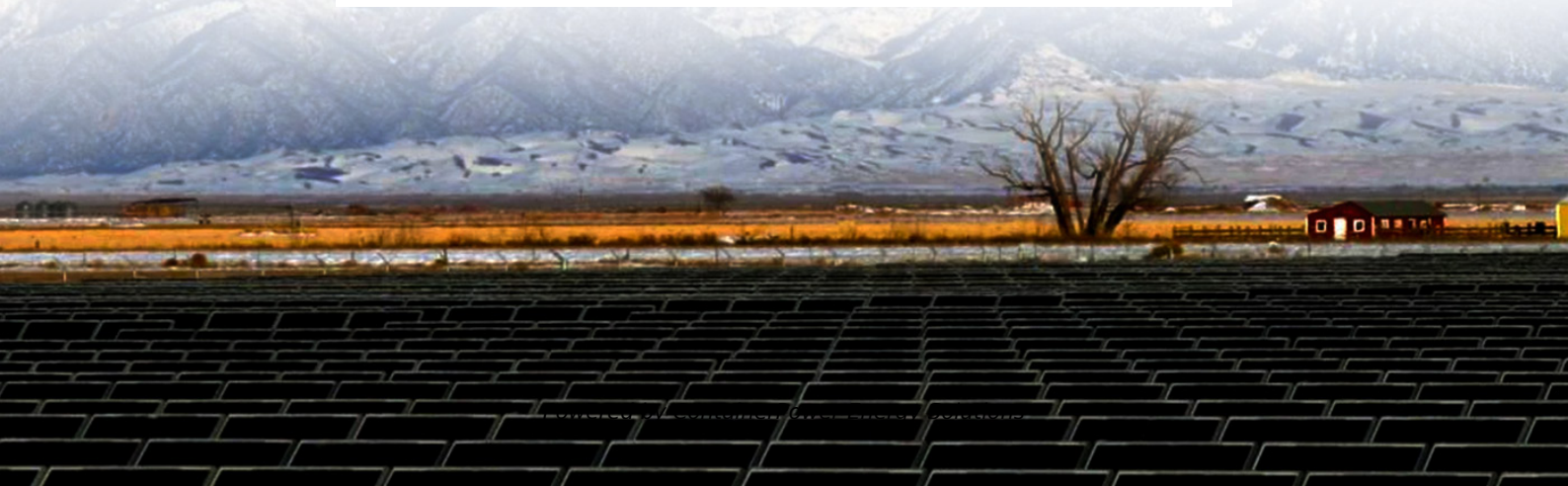
ContainerPower Energy Solutions

Application of inverter in communication base station in high temperature weather



Overview

In order to solve the outstanding problems such as high energy consumption of traditional air conditioners in communication base stations, disordered air distribution in cabinets, and frequent high-temper.

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.

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.

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 temperature of a mobile communication base station?

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

Why is temperature control important in unattended mobile base stations and cell towers?

Due to the limited access for repair and maintenance of base station and cell

towers, long life operation is required Temperature control of sensitive telecom electronics in unattended mobile base stations and cell towers is vital for the operation of primary and back-up systems.

What is the importance of temperature control in Telecom?

Temperature control of sensitive telecom electronics in unattended mobile base stations and cell towers is vital for the operation of primary and back-up systems. Heat can significantly degrade the performance and operating life of telecom cabinets, energy storage systems and back-up battery systems.

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