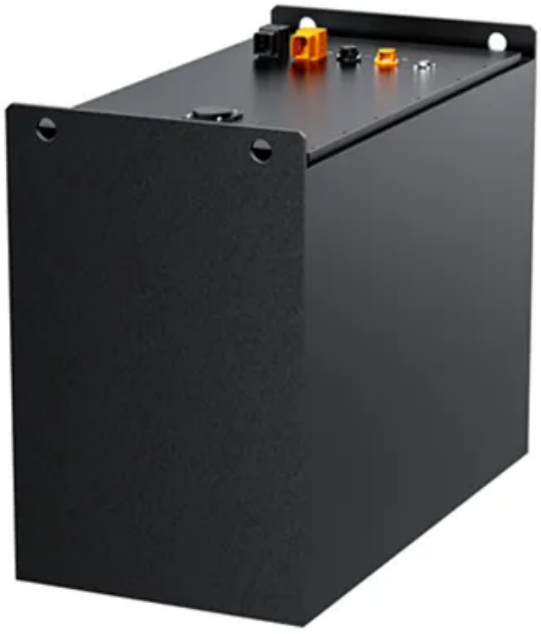
ContainerPower Energy Solutions

Temperature control of the inverter room in a communication base station



Overview

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.

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".

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.

Does BBU meet the temperature control requirements?

The unit was applied to a communication base station in Zhengzhou to conduct the filed test. The results showed that BBU in the cabinet met the temperature control requirements of relevant standards under short-term high temperature and extreme high temperature conditions. There was no high

temperature alarm.

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.

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