ContainerPower Energy Solutions

Communication base station energy storage system dc

Overview

Are data centres and telecommunication base stations energy-saving?

Data centres (DCs) and telecommunication base stations (TBSs) are energy intensive with ~40% of the energy consumption for cooling. Here, we provide a comprehensive review on recent research on energy-saving technologies for cooling DCs and TBSs, covering free-cooling, liquid-cooling, two-phase cooling and thermal energy storage based cooling.

What is the energy consumption of a DC / TBS?

The energy consumption of DCs or TBSs is mainly due to computing and communication, cooling, data storage, lighting, power conversion and electronics etc. The computer and communication system takes the lion's share, accounting for about 50% of the total energy consumption.

Can energy-saving cooling technologies be applied to DCS & TBSS?

Energy-saving cooling technologies, as environmentally friendly and low-cost cooling solution, have been developed low-carbon, energy-efficient and achieving sustainability (Cho et al., 2017). Such cooling technologies could be applied to DCs and TBSs since their servers and racks have similar layouts.

How does a DC & TBS cooling system work?

Cooling methods and performance The cooling of DCs and TBSs is mainly achieved using computer room air conditioning (CRAC) units, which consists of a vapour compression refrigeration system for cooling and a cold/hot aisle layout (Fig. 3) (Nada et al., 2016).

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