Cooling method of battery energy storage system equipment in communication base stations

Overview

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. Cooling systems must protect critical telecommunication cabinets, energy storage systems and back-up. 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. The indoor unit includes a coolant storage tank (6), a water cooled heat exchanger (9), a first coolant circulation pump (7), a second coolant circulation pump.

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COOLING METHOD OF COMMUNICATION BASE STATION

Energy storage systems (ESS) are vital for communication base stations, providing backup power when the grid fails and ensuring that services remain available at all times. [pdf]

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Battery cooling and energy saving in communication base stations

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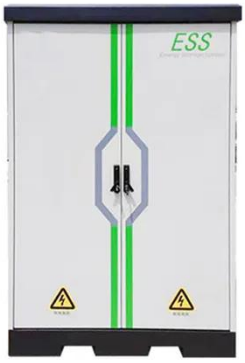

COOLING FOR MOBILE BASE STATIONS AND CELL TOWERS

In [20], the energy saving strategy of base station is proposed considering the variability and complementarity of base station communication loads. This strategy helps the power system to cut ...

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The outdoor heat exchanger (4) is connected with the coolant heat exchanger (3). The energy storage cooling system has the advantage of energy saving.

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