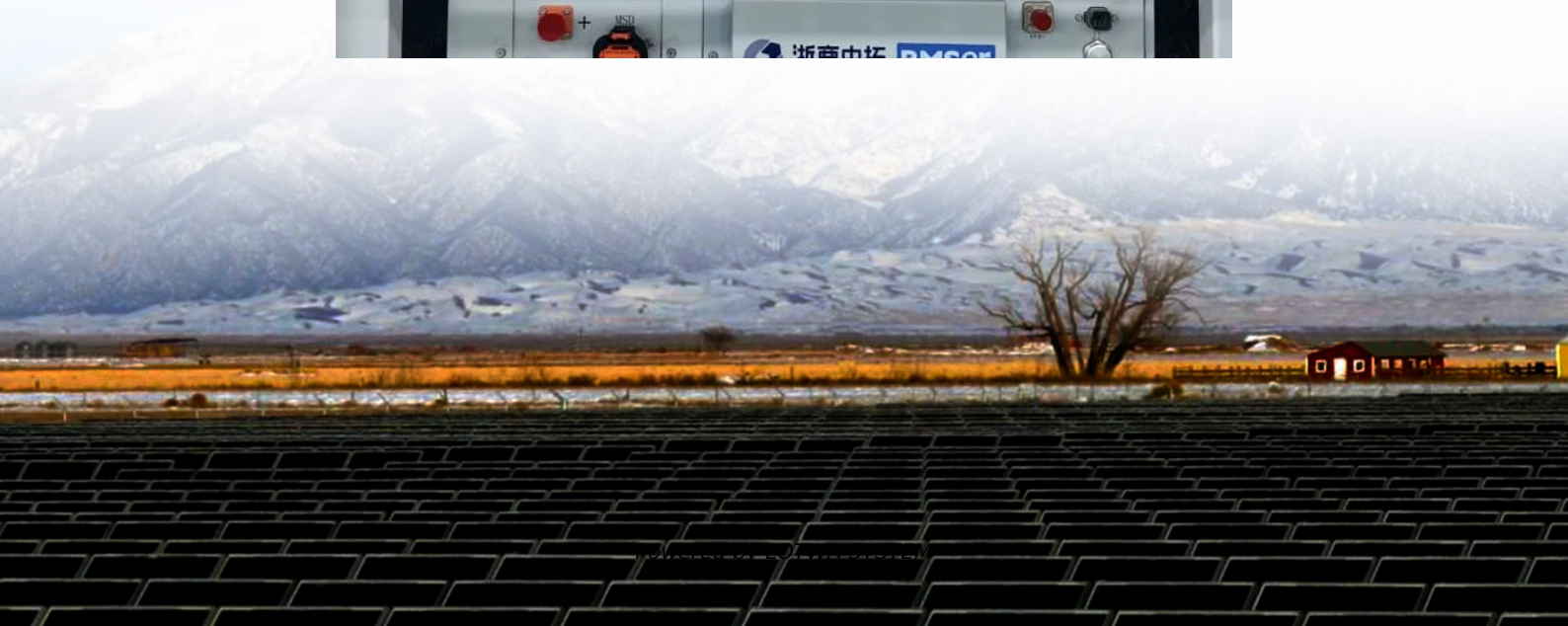


Base station power outage backup power supply fee





Overview

Is there a mismatch between backup batteries and power outages?

Our real trace-driven data analysis clearly reveals that in the battery allocation strategy currently used in practice, there exists a mismatch between the supporting ability of backup batteries and the power outage situations in each base station. The mismatch can lead to serious problems in base stations.

How many base stations in China have a power outage?

In this paper, we closely examine the power outage events and the backup battery activities from a 1.5-year dataset of a branch of a major cellular service provider in China, including 4,206 base stations and more than 1.5 billion records on base stations and batteries.

How many battery groups does a base station have?

The original battery allocation result is largely skewed that over 65 percent base stations are equipped with only one battery group. Our framework considers both the base station situations and battery features, allocating 2 battery groups to most base stations and 3 or 4 battery groups to those with long-time power outages.

Can a base station predict a power outage?

Though each single power outage of one given base station is truly hard to predict precisely, the statistical long-term power outage trends (e.g., in every year) can have a very similar pattern (e.g., a base station built in cold area may suffer from several power outages due to the heavy snow every year).



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