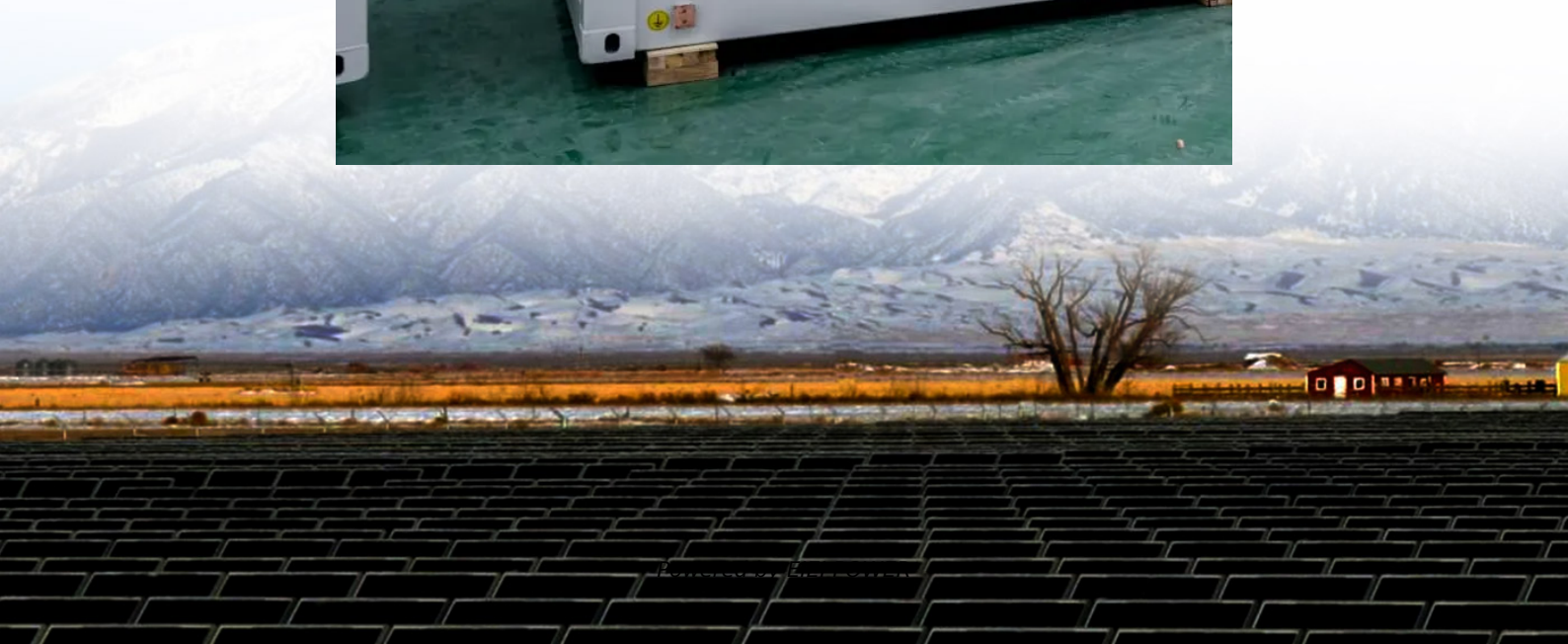


# **Which units of the energy storage cabinet constitute the base station**





## Overview

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Base station energy cabinet: a highly integrated and intelligent hybrid power system that combines multi-input power modules (photovoltaic, wind energy, rectifier modules), monitoring units, power distribution units, lithium batteries, smart switches, FSU and ODF wiring, etc., to effectively solve Various functional requirements such as power supply, backup power supply, and optical network access of base station communication equipment. What is the primary responsibility of the base station energy storage?

The primary responsibility of the base station energy storage is to protect the power supply of the base station, so the dynamic backup capacity of the base station in real time will be considered in the future. Chen, X.; Lu, C.; Han, Y.: Power system frequency problem analysis and frequency characteristics research review.

What is the purpose of a base station?

The structure of base station provides conditions for energy storage to assist in power system frequency regulation. Although the power output of a single base station storage is limited, the combined regulation of large-scale base stations can have a significant meaning.

Can base station energy storage be used as FR resources?

Although the power output of a single base station storage is limited, the combined regulation of large-scale base stations can have a significant meaning. Therefore, the base station energy storage can be used as FR resources and maintain the stability of the power system.

What is the nominal capacity of a base station energy storage?

The nominal capacity of the base station energy storage is 20 kWh, and the number of the base station in each operating state is 500. The SOC values of the base station obey normal distribution between 0 and 1 in each operating states. This paper takes  $(\text{SOC})_{i,\min} = 0.3$  and  $(\text{SOC})_{i,\max} = 0.9$ .



## Which units of the energy storage cabinet constitute the base station

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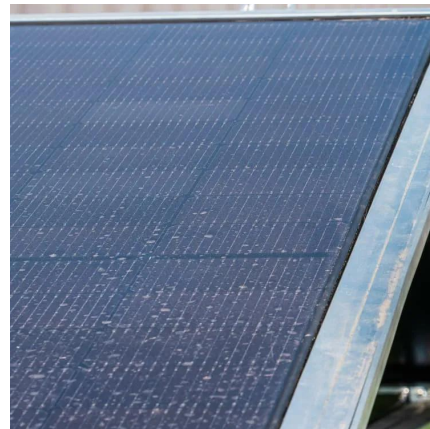
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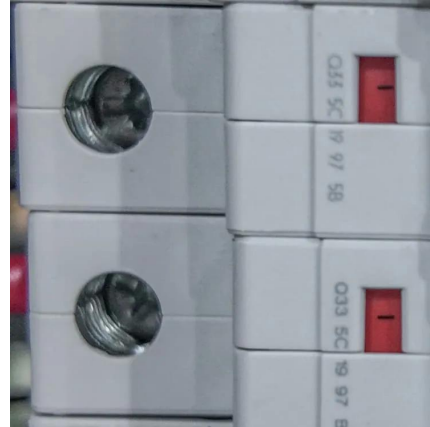
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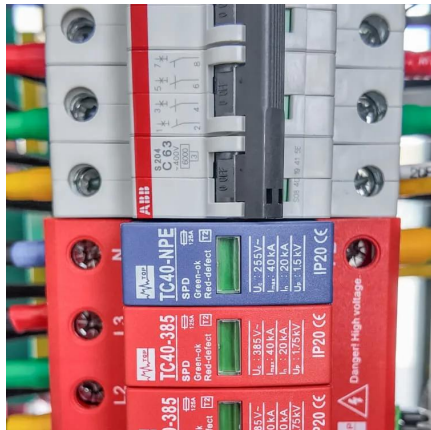
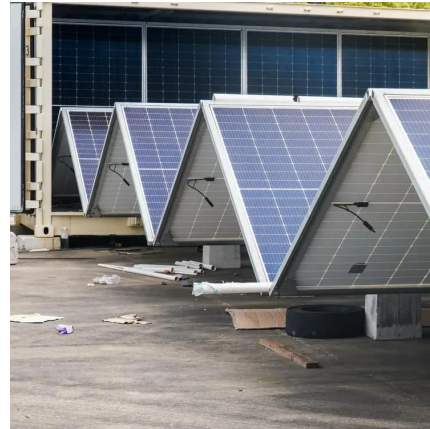
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### Energy storage cabinet basic structure

3-Base-type energy storage cabinet: A structure in which the battery pack and power devices are installed on the base. This structure occupies a small area, is easy to install, and is suitable for



### Pole-type base station energy cabinet

Base station energy cabinet: a highly integrated and intelligent hybrid power system that combines multi-input power modules (photovoltaic, wind energy, rectifier modules), monitoring ...

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