

What does cylindrical battery pack mean





Overview

What is a cylindrical battery pack?

Cylindrical battery packs, such as the 18650 battery pack, are designed to fix multiple cylindrical batteries at designated positions to ensure that excessive displacement does not occur under reasonable vibration and shock conditions. The position of the cell is determined by the cell bracket. In extreme cases, the cell bracket may be deformed.

What is a cylindrical battery?

Cylindrical batteries are small in size and are very suitable for battery packs with irregular spaces, making full use of the corner space. Cylindrical cells made of ternary materials have an energy density of 210~250Wh/kg. Large-scale standardized batteries make cylindrical battery packs also have the premise of automated production.

Why is a cylindrical battery pack a good choice?

Because cylindrical battery packs are made of many small, individual cells, any single-cell failure is relatively contained. The energy released in an incident is low, minimizing the risk of fire or cascade failures.

Is it safe to use a cylindrical battery pack?

It's also safe to work with cylindrical cells. Most other cells can burst if internal pressure increases to unsafe levels. A battery pack's capacity and voltage can be increased by connecting cylindrical cells in parallel and series. Also, damage to one cell has little impact on the rest of the pack.



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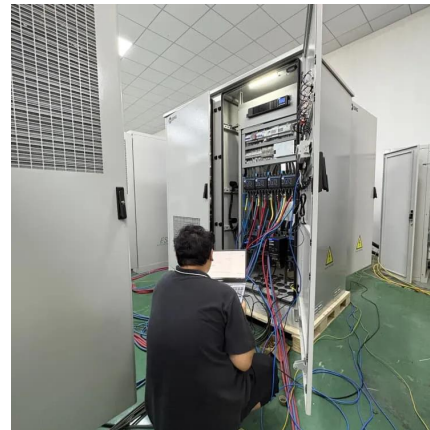


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Cylindrical Cells

Packing The cylindrical format limits the packing density to at best hexagonal close pack.
Electrical Connections The outside can of most cylindrical cells is connected to the anode of ...



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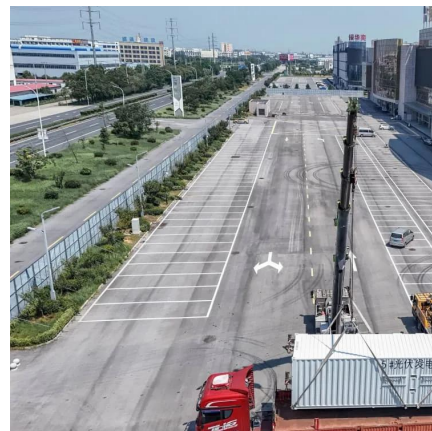


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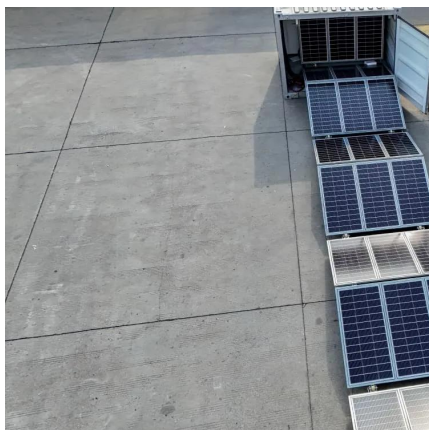


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