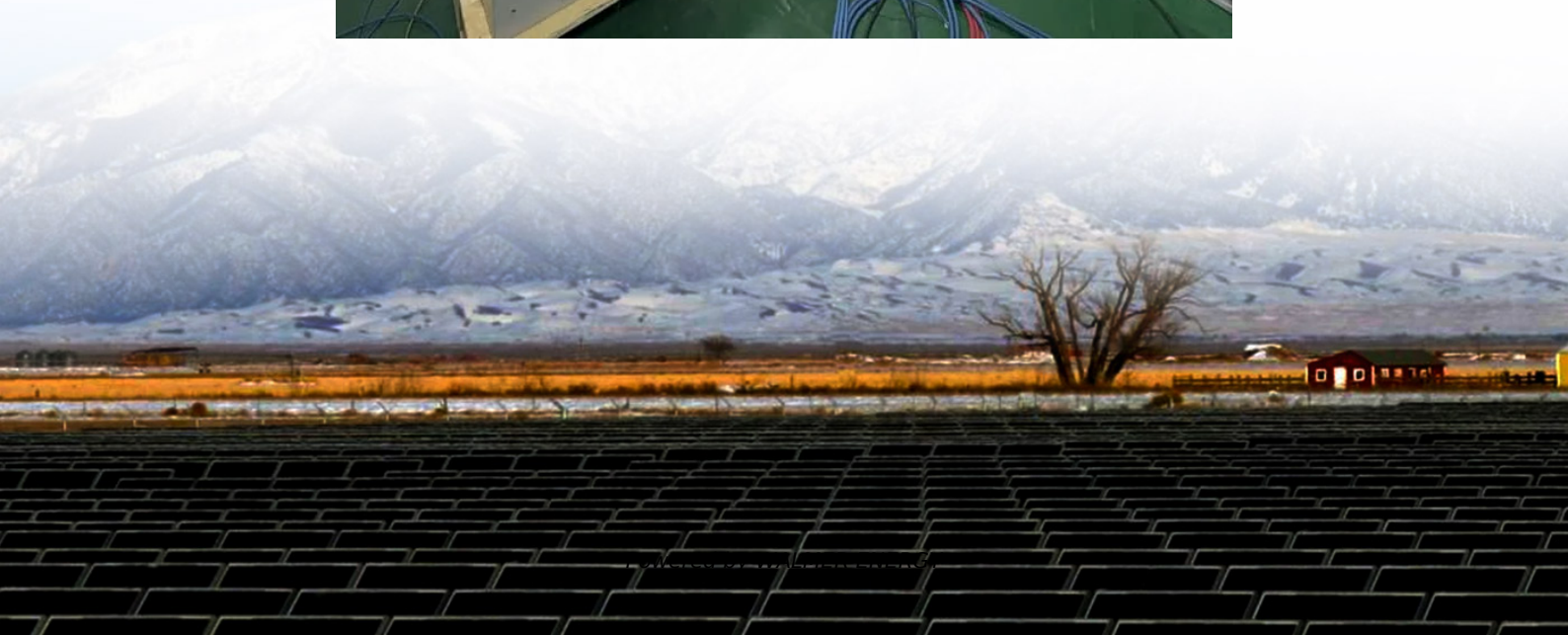


Cylindrical battery pack





Overview

Cylindrical cells are designed with a number of safety features including a defined vent path/weakness. The capacity is relatively small and hence the electrical and thermal energy content is smaller.

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.

What are the advantages of a cylindrical battery?

Limited Design Flexibility: The rigid cylindrical shape can restrict design options, especially in applications requiring custom battery configurations.
Lower Packing Efficiency: Compared to prismatic or pouch cells, cylindrical cells leave more unused space when assembled into battery packs.

What is the difference between a cylindrical and a prismatic battery?

Cylindrical cells feature a compact, standardized design, making them ideal for modular battery packs. Prismatic cells, on the other hand, offer higher energy density per unit, which suits applications requiring fewer cells.



Cylindrical battery pack

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