

Antananarivo cylindrical 4680 solar container lithium battery





Overview

What is a 4680 battery?

Named for its dimensions—46mm in diameter and 80mm in height—this cylindrical battery is set to transform the energy storage and electric vehicle (EV) markets. In this article, we will delve into the technical specifications of the 4680 battery, compare it with traditional battery types, and explore current market trends and future potential.

What is the difference between a lithium ion and a 4680 battery?

Traditional Lithium-Ion Batteries: Typically 200-250 Wh/L Comparison: The 4680 battery offers a significantly higher energy density compared to traditional lithium-ion batteries.

What is the power capacity of a 4680 cell?

At 100% SoC, the power capability of the 4680 all-tab cell is 543.7 W (corresponding to 6.7C), while the power capability of the 2170 single-tab cell, i.e., the LG M50T cell, is 78.4 W (corresponding to 5.2C). The power capability of the 4680 all-tab cell is 6.9 times that of the 2170 single-tab cell, i.e. the LG M50T cell.

Why is a 4680 battery better than other batteries?

- Higher energy density: This means that the 4680 battery can store more energy per unit volume or weight than other batteries. This results in longer driving ranges and lower battery weights for electric vehicles.
- Higher power density: This means that the 4680 battery can deliver more power per unit volume or weight than other batteries.



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4680 Lithium Battery

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