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Title: 21700 battery cell specifications

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What is a 21700 battery?

The 21700 battery is a cylindrical lithium-ion battery with a diameter of 21mm and a length of 70mm. It offers a nominal voltage of 3.7V and a capacity of up to 5,000mAh, making it a powerful and efficient energy source. Its energy density ranges between 250 Wh/kg and 300 Wh/kg, depending on the chemistry.

How big is a 21700 cell?

The 21700 cell stands out due to its standardized dimensions of 21mm in diameter and 70mm in length. These measurements make it larger than the widely used 18650 cell, which measures 18mm by 65mm. This increase in size allows the 21700 to deliver higher energy storage and improved performance.

What is an unprotected 21700 battery?

Unprotected 21700 Batteries: Designed for battery packs or high-performance applications where external battery management systems (BMS) handle protection. 21700 batteries are becoming the industry standard for devices requiring longer runtime and more power. Some common applications include:

What is the energy density of a 21700 battery?

Depending on the specific chemistry, such as NMC or LCO, the energy density of the 21700 ranges from 250 Wh/kg to 300 Wh/kg. This makes it a preferred choice for applications requiring compact yet powerful energy storage solutions. For example: NMC Lithium battery: Energy density of 160-270 Wh/kg, cycle life of 1,000-2,000 cycles.

Download scientific diagram | Specifications of the 21700 battery cell. from publication: Phase Change Material Composite Battery Module for Thermal Protection of Electric Vehicles: An ...

Discover the power of 21700 batteries -- high-capacity lithium-ion cells built for electric vehicles, power tools, and energy storage. Learn specs, types, and key benefits.

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