

21700 Battery cell basic parameters





Overview

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.

What is the difference between a 21700 and a smaller battery?

One of the standout features of the 21700 is its higher capacity and energy density compared to smaller batteries. This allows it to power larger devices, such as electric vehicles and solar energy storage systems, with more reliable performance and fewer recharges. As mentioned earlier, the 21700 battery is 21mm in diameter and 70mm in length.

What is the nominal voltage of a 21700 battery?

The nominal voltage of a 21700 battery is generally around 3.6V to 3.7V, which is standard for lithium-ion technology. These batteries are designed to handle higher continuous discharge rates, making them suitable for high-drain devices like power tools and electric vehicles.

How long does a 21700 battery last?

On average, a 21700 battery can last between 500 to 1000 charge cycles, depending on its chemistry, usage, and maintenance. To maximize the lifespan of your 21700 battery, avoid deep discharges (below 20% charge) and overcharging (above 100%). Proper storage at moderate temperatures also helps ensure a long lifespan. Part 11.



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Li-ion Cylindrical Rechargeable Battery Specification Sheet

Sep 27, 2024 · 1 2 Base Cell Model Capacity [mAh] Rated Voltage [V] Charge Cut-off Voltage [V] Discharge Cut-off Voltage [V] 3 4 5 This Specification sheet describes the basic performance, ...

NCR21700D500 DT(2020-10-30).xls

Jul 1, 2024 · Discharging The cell shall be discharged continuously at less than maximum discharge current specified in the product specification. In case of the higher discharge current ...

The In-Depth Guide to 21700 Batteries

Apr 19, 2024 · The 21700 battery has emerged as a powerful and versatile option in the world of rechargeable lithium-ion batteries. With its unique ...

What Are the Key Specifications of the 21700 Cell?

Apr 11, 2025 · The 21700 lithium battery cell has emerged as a pivotal innovation in energy storage solutions. With its 21mm diameter and 70mm length, this cylindrical power source ...

Exploring the 21700 Battery: Your Ultimate ...

Aug 8, 2024 · With our ultimate guide, uncover the essentials of the 21700 battery. From size and voltage to charger, find all the information you need.

Product Specifications Document No: 50/352

Jun 7, 2021 · 1. Scope This document sheet is prepared to specify the technical parameters of the Li Ion cell model 21700 - 5000mah supplied under AMS Batteries.

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