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## 21700 Battery cell basic parameters

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.

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.

Why is a 21700 cell a good choice?

The larger size of the 21700 cell enables it to store more energy, making it ideal for applications requiring high power capacity, such as electric vehicles and industrial battery packs. Its dimensions also contribute to better thermal management, ensuring safer and more efficient operation.

1C Cycle Life (100% DOD 25°C) 800 Cycles>80% (RT 0.5C/1C) Operating Temperature Range (Cell Surface) charge : 0~55°C Discharge :-20~70°C

A 21700 battery is a high-capacity, rechargeable lithium-ion cell designed for superior energy efficiency and performance. With a standard size of ...

KP Original High Capacity 21700 Lithium Ion Rechargeable Battery Cell, 5000mAh, 3.7V, Flat Top, Single Pack for LED Devices, Bluetooth Speakers, Power Banks

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 ...

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

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 ...

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The 21700 battery, with 21mm diameter and 70mm length, offers 3.7V voltage and up to 5,000mAh capacity, making it ideal for high-power applications.

EVE INR21700-50PL lithium-ion cell, OEM-certified, delivers 5000mAh capacity and 120A continuous discharge, Features ...

The 21700 battery is a larger type of lithium-ion rechargeable battery that has gained considerable popularity for its high capacity and improved performance compared to ...

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