

SolarTech Power Solutions

21700 Maximum battery capacity



Overview

Currently, the maximum capacity for a commercially available 21700 battery is 6000mAh, as seen with XTAR's 21700 model. 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 much energy does a 21700 battery have?

Energy density: The 21700 batteries have an energy density ranging from 250 Wh/kg to 300 Wh/kg. Size and weight: The battery's dimensions are 70 mm in length and 21 mm in diameter³. The weight typically ranges from 50 to 70 grams. Voltage: The voltage of a 21700 battery typically varies between 3.6V to 3.7V when it's in use.

What is the best 21700 mAh battery?

The highest capacity 21700 is the XTAR 21700 6000mAh. The closest runner-ups are Vapcell's F60 (6000mAh) and BAK's 5.5Ah (5500mAh) cell. The XTAR 6000mAh cell is not particularly hard to come by, but it is relatively expensive at over \$15 per cell.

What is the difference between a 21700 and a 26650 battery?

While 18650 batteries remain widely used, the 21700 offers higher capacity in a slightly larger form factor. The 20700 battery serves as a close alternative, while the 26650 provides even greater capacity at the cost of increased size.

Why is 21700 lithium battery a good choice?

It is good to see 21700 lithium cells gives the ability to compete and provide the replacement option to the corded tools in all-around areas by providing longer run time. Its safety property along with its high output current and

energy capacity makes this battery popular among tech industries.

How long does a 21700 battery last?

Protected 21700 batteries generally have a button top, while unprotected ones typically have a flat top. Charge cycles: A 21700 battery can last between 500 to 1000 charge cycles, depending on its chemistry, usage, and maintenance. The 21700 battery is used in devices such as electric vehicles, flashlights, and power tools.

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