

Cost-effective 21700 battery cell





Overview

What is a 21700 battery?

A 21700 battery is a high-capacity, rechargeable lithium-ion cell designed for superior energy efficiency and performance. With a standard size of 21mm in diameter and 70mm in length, these batteries were developed as a next-generation improvement over 18650 cells, offering increased power output, extended runtime, and higher energy density.

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.

What is the difference between protected and unprotected 21700 batteries?

Protected 21700 Batteries: Feature an integrated protection circuit to prevent overcharging, over-discharging, and short circuits. These are slightly longer than standard 21700 cells. **Unprotected 21700 Batteries:** Designed for battery packs or high-performance applications where external battery management systems (BMS) handle protection.

How much does a 21700 cell weigh?

The 21700 cell weighs approximately 60–70 grams, depending on the manufacturer and specific chemistry. While slightly heavier than the 18650 cell, this weight increase is justified by its higher capacity and energy density.



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