

SolarInvert Energy Solutions

21700 battery is lithium battery



Overview

What is a 21700 lithium ion battery?

The 21700 lithium-ion battery has become a standout choice for a wide array of applications, from electric vehicles (EVs) to high-performance power tools. With a higher energy density, longer lifespan, and greater power output compared to its predecessor, the 18650 battery, the 21700 is reshaping the world of rechargeable batteries.

How big is a 21700 battery?

The diameter of the 21700 battery is 21mm. To be more precise, it has an approximate length of 70mm and an approximate diameter is 21mm but technically 21700 cell size is allowed with some tolerance in length and diameter. Thus you could find specifications written as (say) $21 \pm 0.41\text{mm}$ ✕ $70 \pm 0.25\text{mm}$ on the datasheet and features of the li-ion cell.

Why are 21700 batteries so popular?

Energy Density: One of the primary reasons for the 21700 battery's growing popularity is its energy density. Offering approximately 20% more energy per unit volume than the 18650, it can store more power in the same space, enhancing the performance of your devices. .

What voltage does a 21700 battery run?

The 21700 battery operates at a nominal voltage of 3.7V, with a full charge voltage of 4.2V and a discharge cutoff voltage of 3.0V. This voltage range aligns with industry standards for lithium-ion batteries, ensuring compatibility with various devices and systems.

What is the difference between a 21700 and a 5000 mAh battery?

This larger size allows for greater energy storage capacity compared to smaller batteries, making it an attractive option for various applications. The capacity of 21700 batteries typically ranges from 3000mAh to 5000mAh,

providing longer runtimes for devices that demand high power.

What is the energy density of a 21700 battery?

Energy Density One of the key advantages of 21700 batteries is their energy density. Typically, 21700 batteries have an energy density ranging from 250 Wh/kg to 300 Wh/kg, depending on the chemistry used.

21700 battery is lithium battery



21700 Battery

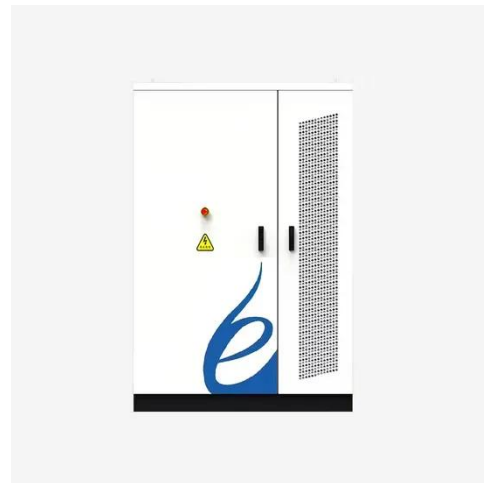
Nitecore NL2153HP is a high-performance 21700 rechargeable lithium-ion battery with a massive 5300mAh capacity and 20A continuous discharge. Built for high-drain devices like LED ...

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Everything You Need to Know About Lithium-Ion 21700 Battery

The 21700 battery is a standout in the lithium-ion battery market due to its impressive capacity, energy density, and long lifespan. It is transforming industries by offering higher power, greater ...

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Your Ultimate Guide to Explore the 21700 Battery

Jun 25, 2025 · 21700 batteries typically use lithium-ion technology, though the specific chemistry may vary: Lithium Cobalt Oxide (LCO): High energy density, moderate lifespan. Lithium Iron ...

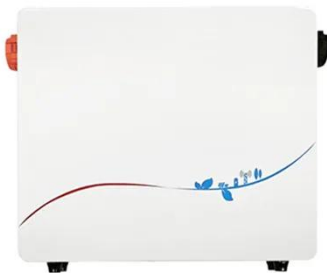
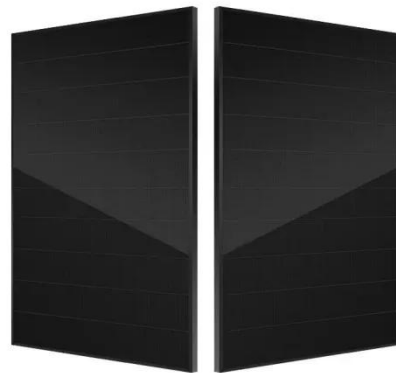
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Comparing Lithium Batteries: 18650 vs 21700 - Which Is ...

Feb 11, 2025 · Battery safety is paramount, especially when dealing with lithium-ion cells. Both 18650 and 21700 batteries typically come with internal protection circuits to prevent issues ...

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Everything You Need to Know About the 21700 Battery

Jun 9, 2025 · Lithium-ion 21700 batteries are part of high-drain devices that provide a voltage range of 3.6 to 3.7 volts and are used where constant ...

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Understanding the 21700 Battery and Its ...

May 17, 2025 · 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 ...

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21700 Batteries , Samsung 40T/50E, Molice P42A/P45B

Shop 21700 Li-ion batteries: Samsung



40T/50E/50S, Molicel P42A/P45B/P50B, EVE 50E/40PL & more. Flat-top, button-top & protected cells; bulk pricing.

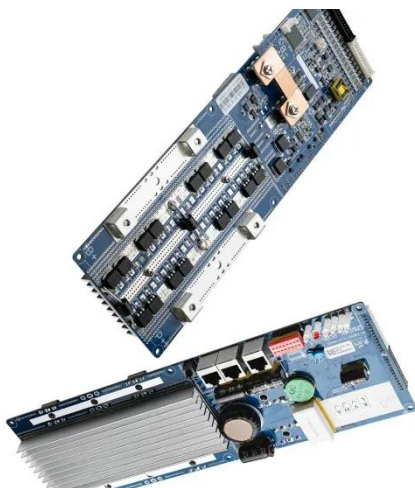
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Exploring the 21700 Battery: Your Ultimate Guide

Aug 8, 2024 · What is a 21700 Battery? A 21700 battery is a type of lithium-ion rechargeable cell. The name "21700" refers to its physical dimensions: it has a ...

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FLEXIBLE DEPLOYMENT



What is a 21700 Battery

Jun 24, 2025 · A 21700 battery is a lithium-ion rechargeable battery with a 21mm diameter and 70mm length--hence the name 21700. Compared to the older 18650 battery (18mm x 65mm), ...

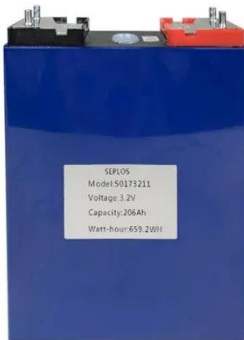
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21700 Lithium-Ion Battery Revolution: Safety, Dimensions

Jul 6, 2024 · The 21700 lithium-ion battery is a powerhouse, offering

significant advantages in capacity and efficiency over its predecessors. While questions about the safety of unprotected ...

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18650 vs 21700 Battery: A Technical Comparison for Smarter ...

Aug 19, 2025 · 18650 vs 21700 Li-ion cells:Size,capacity cost differences compared.Applications in EVs/electronics.Key selection factors and buying tips.

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Rechargeable 18650/21700/26650 Lithium-ion Battery

The 21700 battery is a rechargeable lithium-ion battery named after its dimensions: 21mm in diameter and 70mm in length. It is larger than the more common 18650 battery and offers a ...

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21700 Li-Ion Rechargeable Battery Guide

Jun 23, 2025 · Buy Li-Ion 21700 Batteries online at SIMPOWER, 100% NZ Owned & Operated for over 25 years and the largest range of 21700 cells available.

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21700 Battery: A Complete Guide

Feb 14, 2025 · The 21700 battery is a cylindrical lithium-ion battery that is rechargeable and has a diameter of 21 mm and a length of 70 mm. It is ...

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Rechargeable 18650/21700/26650 Lithium-ion Battery

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18650 Battery vs. 21700 Battery: A Comprehensive Comparison

Nov 2, 2024 · Lithium-ion batteries are everywhere. From laptops to electric vehicles (EVs), they power our modern lives, and two of the most popular cells for high-energy applications are the ...

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21700 Batteries Comparison Applications and ...

Mar 18, 2025 · 21700 batteries are high-capacity lithium-ion cells that measure 21mm in diameter and 70mm in length. They are commonly used in high-drain ...

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The Ultimate Guide To 21700 Li-ion Battery

Feb 26, 2025 · Key Highlights The 21700 battery signifies a specific size of lithium-ion rechargeable battery. Compared to the more common 18650 ...

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The Ultimate Showdown: 21700 vs 18650 Batteries, Which ...



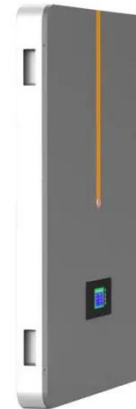
Jul 4, 2024 · Discover the pros and cons of 21700 vs 18650 batteries! Learn about their differences, applications, and which one suits your needs best.

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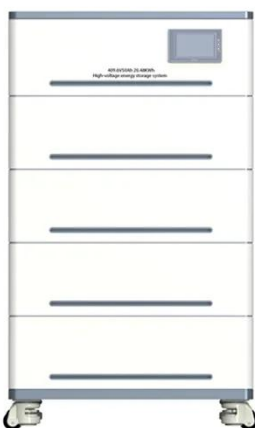
Understanding the 21700 Battery: Features, Benefits, and ...

Aug 5, 2024 · The 21700 battery is a cylindrical lithium-ion rechargeable battery designed for high-capacity and efficient energy storage. Its dimensions-- 21mm in diameter and 70mm in length

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Panasonic NCR21700A 5000mAh 15A Battery

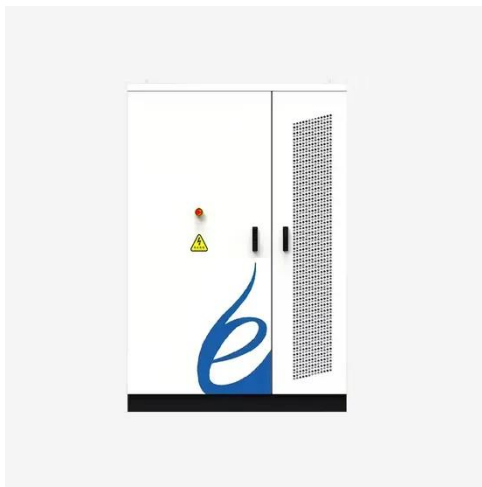
For example, Electric bikes, toys and electronics power devices. Reliable and safe Panasonic and Sanyo are world famous brand, also the leader of Li-ion ...

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What Is a 21700 Battery? Key Features and Uses Explained

May 14, 2025 · The 21700 battery powers modern life. This lithium-ion cell delivers exceptional performance for electric vehicles, high-intensity flashlights, and advanced vaping devices. ...

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How to Choose the Best 21700 Battery for Your Needs

Nov 21, 2024 · Choosing the right 21700 battery is essential for ensuring optimal performance in various applications, including electric vehicles, power tools, and portable electronics. These ...

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The In-Depth Guide to 21700 Batteries

Apr 19, 2024 · What is a 21700 Battery? A 21700 battery is a cylindrical lithium-ion battery that measures 21mm in diameter and 70mm in length. This larger ...

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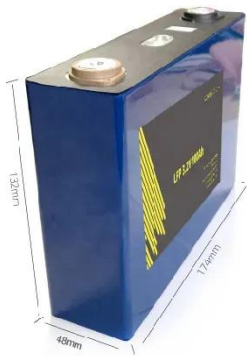


Understanding the 21700 Lithium-Ion Battery: A ...

Dec 5, 2024 · What is a 21700 Battery? The 21700 battery is a lithium-ion

rechargeable battery characterized by its cylindrical shape and dimensions of ...

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21700 Lithium Battery: A Beginner's Complete Guide

Discover the essentials of the 21700 lithium battery in our beginner's guide. Learn about its features, benefits, and applications today!

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21700 Batteries , Order 21700 Battery Cells ...

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21700 Battery Specifications: Datasheet and ...

The 21700 battery is a Li-ion battery named after its 21mm x 70mm

cylindrical size (diameter × height).
When compared to AA size and 18650 type cells, ...

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21700 vs. 18650 Battery: The Ultimate Consumer Guide

21700 vs 18650 Lithium battery comparison. A detailed look at these cylindrical battery cells. Compare 21700 batteries vs 18650, capacity, and which is most suitable.

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What Battery Can Replace an 18650? Comparing 21700 and

Jul 20, 2025 · Choosing a replacement for the popular 18650 lithium-ion battery depends on your device's requirements: 21700 batteries offer higher capacity and energy density suited for ...

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51.2V 150AH, 7.68KWH

21700 Battery vs 18650: A Detailed Comparison

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21mm in diameter and 70mm in length.
Its name comes from these ...

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26650 vs 21700 vs 18650 Battery: Power, Size

May 24, 2024 · Compare 26650 vs 21700 vs 18650 batteries by size, capacity, and performance. Find the best fit for your needs with this energy guide.

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Understanding the 21700 Lithium-Ion Battery: A ...

Dec 5, 2024 · The 21700 battery is a lithium-ion rechargeable battery characterized by its cylindrical shape and dimensions of 21mm in diameter ...

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