

SolarInvert Energy Solutions

21700 high rate battery

LiFePO₄ Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

The heating function is optional

Intelligent BMS

Cycle Life: ≥ 6000

Warranty: 10 years



Overview

Are 21700 batteries safe?

Unprotected 21700 batteries: Lack built-in safety features and are generally used in battery packs with external battery management systems (BMS). 21700 batteries are widely used in: Electric vehicles, with companies like Tesla and other manufacturers using them in battery packs for improved energy storage and performance.

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.

Why are 21700 batteries so expensive?

- Initial Cost: High-performance 21700 cells can be more expensive upfront compared to smaller formats.
- Compatibility: Older devices designed for 18650 cells may not accommodate the larger 21700 without modifications. As technology continues to advance, the performance of 21700 batteries is expected to improve further.

Are 21700 batteries based on lithium ion?

However, most 21700 cells are based on lithium-ion (Li-ion) technology, which is widely used across many types of rechargeable batteries due to its excellent energy density and long lifespan. There are several types of lithium-ion chemistries that could be used within the 21700 format:.

What are the advantages of 21700 batteries?

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. This is a notable improvement compared to 18650 batteries, which usually offer around 180 Wh/kg to 250 Wh/kg.

What makes a 21700 battery better than an 18650?

1. Energy Density One of the standout features of the 21700 battery cell is its high energy density. A single 21700 battery can deliver approximately 30-50% more energy than an 18650 cell due to its larger size and optimized design. This translates to longer runtimes for devices and increased range for EVs.

21700 high rate battery



Determining Safe Discharge Rates for 18650 and 21700 Battery ...

Learn how to calculate and maintain safe discharge rates for 18650 and 21700 battery packs. Expert guide on factors affecting discharge, methods, and best practices.

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Panasonic NCR21700A 5000mAh 15A Battery

Product Features High capacity and energy density For providing stable power to devices, Panasonic NCR21700A 5000mAh 15A rechargeable battery offer ...

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Understanding the 21700 Battery and Its ...

May 17, 2025 · 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 ...

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Choosing the Right 21700 Li-Ion Battery: A Guide for ...

Compared to traditional 18650 batteries, the 21700 rechargeable batteries offer higher capacity, improved energy efficiency, and longer cycle life. This article explores the advantages of ICR ...

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Rechargeable 18650/21700/26650 Lithium-ion Battery

Applications for 21700 Batteries With a variety of uses, 21700 batteries are seen in high-performance electronics, from e-bikes and power tools to solar power storage and beyond. ...

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21700 Li-ion Battery 3.6V 5000mAh

Fast discharge rate 6C and fast charge rate 2C No.1 In Sales Volume Unique In Technology The Sunpower New Energy 21700 li-ion battery has good storage ...

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21700 Li-ion Battery 3.6V 4000mAh

High temperature lithium ion battery



refers to the battery that has good storage performance and cycle life performance under high temperature conditions. ...

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21700 Li-ion Battery 3.65V 5000mAh

5000mAh 3.65V 2C high rate lithium ion Battery 50E is stable, safe and reliable, can withstand all kinds of harsh environment, and can be specially developed ...

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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 ...

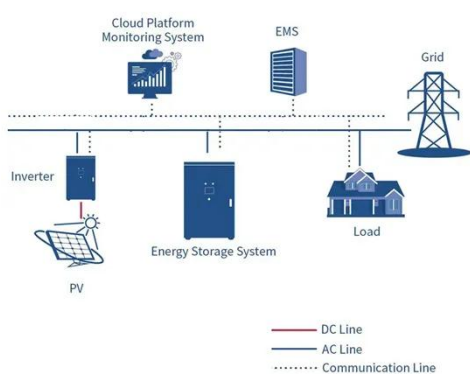
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Samsung 40T 21700 4000mAh 35A Battery

Push the limits of power with the Samsung 40T 21700 battery, boasting a

high capacity of 4000mAh and an impressive 35A continuous discharge rate. ...

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Best 21700 Battery For Mech Mod [Updated On: ...

4 days ago · The 21700 batteries to avoid when using a mech mod are those that cannot handle high discharge rates safely. Batteries with low continuous ...

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Molicel's 21700 High-Power Roadmap

Jul 14, 2025 · Molicel, the Taiwan-based manufacturer known for producing some of the most trusted high-power lithium-ion cells, is expanding its 21700 product ...

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Molicel INR21700-P42A High-Rate Li-Ion Cell

Introduction: Key Specifications The Molicel INR21700-P42A is a premium

lithium-ion cell with a 4200mAh typical capacity (4000mAh minimum) and a nominal voltage of 3.6V, it delivers an ...

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BAK Battery's 21700-5.5Ah High-Capacity ...

Dec 1, 2023 · Recently, BAK Battery announced the mass production of its 21700-5.5Ah high-capacity battery cells, once again achieving a breakthrough ...

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21700 Battery: A Complete Guide

Feb 14, 2025 · The 21700 battery is becoming a new standard for high-performance devices due to its higher discharge rate and lifespan of 500-800 ...

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21700 Battery Features, Types, Dimensions, & Uses

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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21700 Batteries - High Drain Rechargeable Li ...

Discharge rate (C-rating): Some 21700 cells are designed for high-drain applications, offering continuous discharge rates (CDR) up to 45A or more. ...

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High Discharge Rate 3.7V 8Ah 21700 Battery Pack

High Discharge Rate 3.7V 8Ah 21700 Battery Pack Engineered with high-rate lithium cells, this compact battery pack delivers instant surge power (6C+ discharge)--ideal for AGVs, power ...

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21700 Batteries Performance, Uses

Mar 18, 2025 · Explore 21700 batteries: performance specs, voltage, capacity,

and high discharge rates. Discover their diverse uses in EVs, power tools, and more

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Samsung 40T INR 21700 4000mAh 3.7V ...

High Discharge Rate 35A max continuous discharge rate for high-drain electronics, great for making battery packs for devices that require minimum

...

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What is the Differences between 21700 Battery ...

FAQs Q1: Which battery type is better for high-power tools, the 21700 or the 26650? A1: The 21700 cell is typically better for high-power tools because it ...

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Leading 21700 Cells Manufacturer: Highstar's Advanced Battery

Aug 8, 2025 · Discover Highstar's premium 21700 lithium cells manufacturing with 30+ years expertise. High-capacity, high-rate discharge cells for power tools, e-bikes, energy storage. ...

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MoliceL INR21700-P42A High-Rate Li-Ion Cell

Designed for peak power demands, the P42A supports stable 45A continuous discharge (cut-off at 2.5V) with superior burst capability. Its discharge rate spans 0.2C to over 10C (45A/4.2A), ...

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Best 21700 Battery

Jul 10, 2025 · Best 21700 Batteries for High-Performance Devices BFHB 21700 Battery Case Set 5000mAh for Flashlight The BFHB is a top-tier 21700 battery with a massive 5000mAh ...

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21700 Batteries , High-Performance Lithium-Ion Cells

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, ...

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Exploring the 21700 Battery: Your Ultimate Guide

Aug 8, 2024 · Larger batteries can deliver higher discharge rates, which means that devices using 21700 batteries can consume energy at a faster rate ...

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18650 3.7V
RECHARGEABLE BATTERY
2000mAh



Newest High Rate 21700 Battery 5000mAh Max 125A E Ve 50pl

Aug 13, 2025 · Newest High Rate 21700 Battery 5000mAh Max 125A E Ve 50pl, Find Details and Price about Lithium Battery 21700 Battery from Newest High Rate 21700 Battery 5000mAh ...

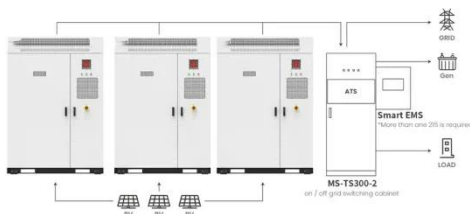
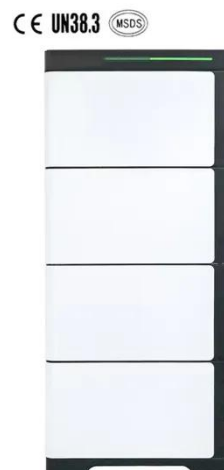
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21700 Batteries , Battery Junction

Does discharge rate/current matter? Yes,

many flashlights with high-lumen turbo modes require a minimum discharge rate to reach peak brightness. We list the discharge rates for all our 21700 ...

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Application scenarios of energy storage battery products

Understanding the Performance of 21700 Battery

Jan 17, 2025 · Among the many battery formats available, the 21700 battery has gained significant attention due to its superior performance metrics and versatility. But what makes ...

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