

SolarTech Power Solutions

Lima 21700 battery cell parameters



Overview

What is 21700 lithium ion?

Using 21700 lithium-ion technology, such building blocks offer the most modern and energy-dense solution in easy to use package. 21700 is a very well established and time-tested battery cell standard. These cells are designed to withstand consumer's abuse, while offering the best in class energy density.

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.

Is Lib 21700 a good battery format?

Due to its increased cell size, LIB 21700 (Lithium-ion battery) format has surpassed the existing formats as it offers larger capacity and higher energy density. However, the battery pack's extended life and appropriate performance greatly relies on the temperature. Therefore, the thermal performance assessment of LIBS is quite essential.

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.

Why is a 21700 cell a good choice?

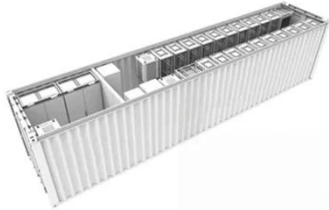
The larger size of the 21700 cell enables it to store more energy, making it ideal for applications requiring high power capacity, such as electric vehicles

and industrial battery packs. Its dimensions also contribute to better thermal management, ensuring safer and more efficient operation.

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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Investigation of Convective and Radiative Heat Transfer of 21700 ...

Jun 26, 2025 · This study aims to deepen the understanding of passive heat dissipation in 21700 battery cells and optimize their performance. Special emphasis is placed on analyzing heat ...

Thermal analysis of high specific energy NCM-21700 Li-ion battery cell

May 30, 2024 · The Electro-thermal model of the NCM-21700 Li-ion battery cell incorporates two primary heat source terms during charge and discharge operations. In a battery cell, the total ...



Molicel INR21700-P50B Battery Data, Model and ...

6 days ago · The Batemo Cell Model of the lithium-ion battery cell Molicel INR21700-P50B is a high-precision, physical cell model with global validity. As ...



PRODUCTSPECIFICATION ?

Jun 23, 2025 · This specification applies to the technical requirements, test items, testing rules, safety warnings, packaging, transportation and storage of lithium-ion battery packs produced ...



Characterizing and predicting 21700 NMC lithium-ion battery ...

Jun 5, 2022 · Combined numerical and experimental studies are conducted to characterise 21,700 cylindrical lithium-ion battery (LIB) thermal runaway (TR) induced by nail penetration. ...

Huge variety of 21700 li-ion battery cells from ...

4 days ago · 21700 Li-ion battery cells

are a popular and relatively new standard for rechargeable lithium-ion batteries. Named after their dimensions (21mm in ...

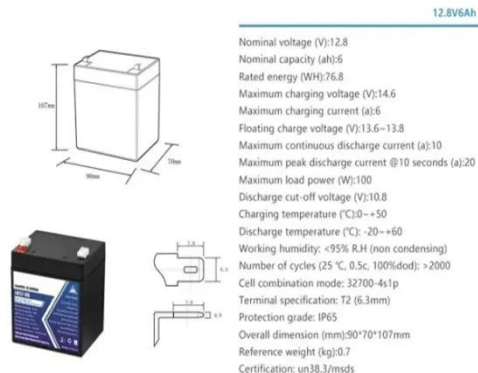


What Are the Key Specifications of the 21700 Cell?

Apr 11, 2025 · 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 ...

Heat generation quantification of high-specific-energy 21700 battery

Feb 5, 2021 · Whether optimizing the heat generation characteristics of the battery cell or designing a suitable thermal management system for a power battery, it is necessary to know ...



Li-ion building block with

Molicel P45B datasheet



Apr 18, 2025 · A Li-Ion building block was developed with simplicity and safety in mind. Using 21700 lithium-ion technology, such building blocks offer the most modern and energy-dense ...

Li-ion building block with Molicel P45B datasheet

Apr 18, 2025 · Using 21700 lithium-ion technology, such building blocks offer the most modern and energy-dense solution in easy to use package. 21700 is a very well established and time ...



Parameters and brands of 21700 lithium batteries.

Oct 21, 2024 · The single-cell capacity reaches 5000mAh, and it supports up to 1C charging and 3C discharging. It is an energy storage high-energy-density battery cell and can be packaged ...

HDCNR21700-4000mAh-3.7 V R2

Nov 20, 2024 · This specification

describes the type and dimensions, performance, technical characteristics, warning and caution of the lithium ion battery cell. The specification only ...



Li-ion Cylindrical Rechargeable Battery Specification Sheet

Sep 27, 2024 · 1 2 Base Cell Model
Capcity [mAh] Rated Voltage [V] Charge
Cut-off Voltage [V] Discharge Cut-off
Voltage [V] 3 4 5 This Specification sheet
describes the basic performance, ...

Thermal management of 21700 Li-ion battery packs

Jan 5, 2024 · Due to its increased cell size, LIB 21700 (Lithium-ion battery) format has surpassed the existing formats as it offers larger capacity and higher energy density. However, the battery ...



Measurement of thermophysical parameters



and thermal modeling of 21,700

Aug 15, 2023 · Currently, the mainly used cylindrical lithium-ion batteries are 18,650 (18 mm diameter, 65 mm height), 26,650 (26 mm diameter, 65 mm height), and 21,700-type cells (21 ...

21700 Battery Cell 3.7V 4800mAh Datasheet

Dec 24, 2022 · Lithium ion Ternary Battery Cell 21700 4800mAh 3.7V without Protection Circuit Module (PCM)
This data sheet describes the requirements and properties of lithium polymer ...



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