

# **Common cylindrical battery cell 21700**





## Overview

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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.

What is a 21700 cell?

For this article we will concentrate on the 21700 format, but this is migrating towards the 46mm diameter 46xx class of cylindrical cells in a push to reduce cell manufacturing costs. The 21700 cell increased the working volume over the 18650 by a factor of  $>1.4x$ .

How many Li-ion cylindrical battery cells are there?

This paper investigates 19 Li-ion cylindrical battery cells from four cell manufacturers in four formats (18650, 20700, 21700, and 4680). We aim to systematically capture the design features, such as tab design and quality parameters, such as manufacturing tolerances and generically describe cylindrical cells.

Are Samsung 21700 batteries a good choice?

As energy storage and electric mobility sectors rapidly expand, companies are increasingly focused on battery performance, safety, and reliability. Among the most trusted options in the market today are Samsung 21700 cells, known for their superior energy density and long cycle life.



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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 ...

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Understanding the 21700 Battery and Its Specifications

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 applications.

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21700 Cylindrical Lithium-Ion Batteries: ...

The 21700 cylindrical lithium-ion battery, named for its 21mm diameter and 70mm length, has emerged as a dominant force in modern power ...

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21700 Cylindrical Lithium-Ion Batteries: Powering the Future

The 21700 cylindrical lithium-ion battery, named for its 21mm diameter and 70mm length, has emerged as a dominant force in modern power solutions. This article delves into the ...

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21700 Cylindrical Lithium-Ion Battery Cell

The 21700 cylindrical lithium-ion battery cell is a key specification in the lithium-ion battery field. With its balanced performance in capacity, energy density, and power output, it has become a ...

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21700 Cylindrical cells - Comparison of ...

Feb 12, 2025 · The 21700 cell has been mass-produced lately by many companies who were producing 18650, and some of these companies ...

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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 ...

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21700 Cylindrical cells - Comparison of economical vs ...

Feb 12, 2025 · The 21700 cell has been mass-produced lately by many companies who were producing 18650, and some of these companies have completely moved to 21700 production. ...

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High-performance 21700 cylindrical cell with high energy ...

Our cylindrical cells. UniverCell 21700 Cylindrical Cells - Innovation for High-Performance Applications At UniverCell, we are redefining cylindrical cell technology with our advanced ...

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Samsung 21700 Cells: The Industrial Standard for High ...

May 21, 2025 · Samsung 21700 batteries are cylindrical lithium-ion cells with a diameter of 21mm and a length of 70mm. Compared to the older 18650 format, the 21700 design delivers ...

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High-performance 21700 cylindrical cell with ...

Our cylindrical cells. UniverCell 21700 Cylindrical Cells - Innovation for High-Performance Applications At UniverCell, we are redefining cylindrical cell ...

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Design, Properties, and Manufacturing of Cylindrical Li-Ion Battery

Jun 2, 2023 · This paper investigates 19 Li-ion cylindrical battery cells from four cell manufacturers in four formats (18650, 20700, 21700, and 4680). We aim to systematically capture the design ...

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Design, Properties, and Manufacturing of ...

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6 Battery Cell Types: 18650 vs 21700 vs 26650 Battery

Apr 3, 2024 · Battery cells refer to the core components of the battery. We will introduce several common cylindrical cell types, especially 18650 vs 21700 vs 26650 Battery.

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