

# Lithium battery 18650 specs

Sample Order  
UL/KC/CB/UN38.3/UL





## Overview

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An 18650 battery or 1865 cell is a cylindrical common in electronic devices. The batteries measure 18 mm (0.71 in) in diameter by 65 mm (2.56 in) in length, giving them the name 18650. The battery comes in many nominal voltages depending on the specific chemistry used. first developed the 18650 battery in 1994 "when there was a growin.

What is the diameter of 18650 battery?

The diameter of the 18650 battery is 18mm. To be more precise, it has an approximate length of 65mm and an approximate diameter is 18mm but technically 18650 battery size is allowed with some tolerance in length and diameter. Thus you could find specification written as, (say)  $18 \pm 0.41\text{mm}$  ✕  $65 \pm 0.25\text{mm}$  on datasheet and features of Li-ion cell.

Are 18650 batteries lithium based?

18650 batteries are most commonly lithium-based. [citation needed] By 2023, some sodium-ion variants were available in the 18mm x 65 mm cylindrical cell form factor as well. [better source needed].

Are 18650 batteries a replacement for AA or AAA batteries?

They are not replacements for AA or AAA size cells. The 18650 battery has a nominal voltage of 3.6v and has capacity between 1200mAh and 3600mAh (read as mili-Amp-hours). The battery type 18650 are popular in rechargeable and high current draining devices considering its high-level capabilities like 250+ charge cycle and higher energy density.

How many Mah is a Panasonic 18650 battery?

Panasonic 18650 batteries inside a laptop. Each cell has a capacity of 2450 mAh. An 18650 battery or 1865 cell is a cylindrical lithium-ion battery common in electronic devices. The batteries measure 18 mm (0.71 in) in diameter by 65 mm (2.56 in) in length, giving them the name 18650.

What is a C rating for a 18650 battery?



C rating for a 18650 battery is usually 1C, this means that we can consume a maximum of 2.85A from the battery. This is because (Ah rating \* C rating) gives us the maximum current that can be sucked out from the battery.

How long does a 18650 battery last?

An 18650 cell rated at 2850mAh means that when we consume 2.850A from the battery it will last for 1 hour and similarly if we consume only 0.285A from the battery it will last for 10 hours so we can use the Ah rating to calculate how long your battery will last for your application based on the current consumed.



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### 18650 Battery , Rechargeable Li-Ion Cells , Battery Junction

Specifications Voltage 3.6V / 3.7V Chemistry Lithium-ion Discharge Rating 1.5 - 4A Capacity 2000 - 3600mAh Replacement Sizes 168A, 18650, 19670, Protected 18650, Unprotected 18650 What are 18650 Batteries? The 18650 battery is a lithium-ion cell

### 18650 Batteries

An 18650 battery is a type of lithium-ion rechargeable battery. The numbers "18650" refer to the battery's dimensions: it is 18mm in diameter and 65mm in length. 18650 batteries are commonly used in electronic devices such as laptops and flashlights, as well as in electric vehicles and other high-power applications.



### 18650 Battery Specifications: Datasheet and Ratings

Battery Specifications. Table 1: Ratings. 3. General Performance. 3.1 Initial Performance Test. 3.2 Cycle Performance. 4. Environmental Performance. Mechanical Properties. 5. Safety ...

### The complete guide to the 18650 rechargeable battery

High-capacity lithium-ion batteries are a great replacement for older-generation batteries. They are designed to be lighter, operate for a longer time, live longer, recharge faster, and have a less negative impact on the environment.



Lithium batteries are available in different types, shapes, and sizes. 18650 rechargeable battery is one of the most common in this ...



### The Best 18650 Battery Guide: Everything You Need to Know

There are various other unknown brands with all sorts of unrealistic ratings. As of 2021, there is not a single 18650 lithium ion battery rated above 3600mAh capacity or a 30A CDR. If you see any 18650 battery marketed above these specs, you should be very

### Title Li-ion Battery Specifications (Steel) Page 1/11

Title Li-ion Battery Specifications (Steel) Page 6/11 NO Items Requirements 1 Over Charge detection voltage.  $4.35 \pm 0.025V$  2 Over Charge release voltage.  $4.15 \pm 0.050V$  3 Excess discharge detection voltage.  $2.3 \pm 0.08V$  4 Excess discharge release5 Over current(4)



### [Li-ion Cylindrical Battery Specification](#)

Li-ion Cylindrical Battery Specification Model: USE-18650-2000PCBUSB Checked & Approved by Prepared by Date Andrew Hou Jahorry 2021/02/08 Note: 1.Kindly please sign on the underneath and send it back to us if the sample is approved. 2.Kindly





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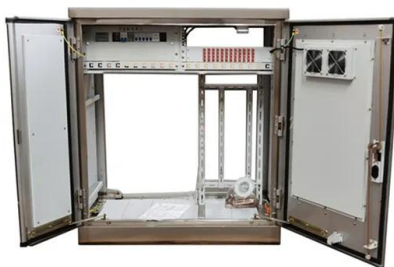


**ICR18650 2200mAh Specification Datasheet by Adafruit ...**

View datasheets for ICR18650 2200mAh Specification by Adafruit Industries LLC and other related components here. ICR18650 2200mAh Specification Datasheet by Adafruit Industries LLC View All Related Products , Download PDF Datasheet

**LG INR 18650 MJ1**

The cell mass is given as a maximum of 49.0g on the specification sheet. Batemo quote 46.7g for the cell mass. An Advanced Microstructural and Electrochemical Datasheet on 18650 Li-Ion Batteries with ...



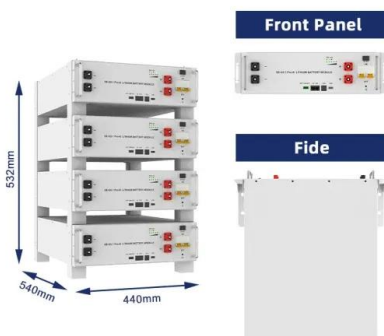
**Understanding the 18650 Battery: Everything You Need to Know**

Specifications and Design The 18650 battery is a cylindrical lithium-ion battery that has gained recognition for its outstanding performance. Here are some key specifications and design features: Voltage: The 18650 battery typically operates at a nominal voltage of 3.7 volts.



## 18650 Lithium Ion Power Cell

Lithium Werks' 18650 cells are capable of delivering very high power due to its use of patented Nanophosphate<sup>®</sup> battery technology. Based on lithium iron phosphate chemistry (LiFePO<sub>4</sub>), the cells are inherently safe over a wide range of temperatures and



## **LITHIUM ION BATTERIES: INDIVIDUAL DATA SHEET ...**

Cell and battery designs/specifications are subject to modification without notice. Contact Panasonic for the latest information. LITHIUM ION BATTERIES: INDIVIDUAL DATA SHEET  
CGR18650C CGR18650C: Cylindrical Model  
Specifications 4.8 4.0 3.8 3.0 2.8

## **SPECIFICATIONS OF PRODUCT**

Spec. No. INR18650-29E Version No. 1.1  
Samsung SDI., Battery Business Division. 2 1.  
Scope This product specification has been prepared to specify the rechargeable lithium-ion cell ('cell') to be supplied to the customer by Samsung SDI Co., Ltd. 2.1



## **18650-Akku: Informationen zu Abmessungen, Einsatzbereichen ...**

Panasonic NCR 18650 PF Li-Ion Akku Als erstes, dieser 18650-er Akku hat keine eingebaute PCB Protection, daher bitte nicht kurz schließen, überladen oder tiefentladen! Der maximale Entladestrom von 10A bei einer 1P-Schaltung darf nicht überschritten werden, ein höherer Entladestrom zerstört den Akku vorzeitig.



### 18650 Data Sheets from Samsung, Molicel, Murata and more

18650 Data Sheets from Samsung, Molicel, Murata and more. Technical specifications for all the major brands and most popular batteries available today. \*The data sheets listed here may not always be the latest up-to-date versions. You should always check with



### [Li-ion Cylindrical Battery Specification](#)

This specification is applied to Lithium-ion rechargeable battery pack. Reference standard: GB/T 18287-2013?IEC/EN61960?UL1642?GB/T 31241-2014. 2. Product Configuration. 3.Product ...



### The Ultimate Guide to the 18650 Batteries: Specs, Usage, and ...

The term "18650" refers to the standardized size of the battery. Here's how the name breaks down: 18: Diameter of the battery in millimeters (18mm) 65: Length of the battery ...



### PRODUCT SPECIFICATION

Lithium Ion LG 18650 HE2 2500mAh BCY-PS-HE2-Rev0 2013-01-30 0 2/9 Revision History Revision Date Originator Description Cylindrical rechargeable lithium ion battery 1.4 Model name: 18650 HE2 2. Nominal Specification Item Condition / Note2.1) 2.22.3.



## Un guide complet de la batterie rechargeable 18650

Le marché mondial des batteries au lithium 18650 valait 644.76 millions de dollars en 2021 et devrait augmenter à un TCAC de 1.6 % au cours de la période de prévision pour atteindre 709.19 millions de dollars d'ici 2027. L'avenir des batteries 18650 réside dans l



### 18650 and 21700 Specifications , EVE Energy North America

Product Questions: info@evebatteryusa Sales: sales@evebatteryusa Telephone: (614) 389-2552 Fax: (614) 453-8165 (Phone support is available Mon. through Fri. 8:00 am. - 5:00 pm EST) Address: 7910 N Central Dr, Lewis Center, OH, USA 43035

### The Ultimate Guide to 18650 Batteries: Specs, Uses, and More

An 18650 battery is a type of lithium-ion rechargeable battery that is cylindrical in shape, measuring 18mm in diameter and 65mm in length. It is commonly used in high-performance devices such as flashlights, laptops, and electric vehicles due to ...



### [A Beginner's Guide To 18650 Battery](#)

In this guide, we use some analogies to help you understand basics of 18650 lithium battery. What does 18650 mean, how long do 18650 battery last or hold charge, what to look out for when swapping out the battery, ...



### Understand 18650 Lithium Battery Specifications: from Basic ...

18650 lithium battery is a type of cylindrical lithium-ion battery, and the "18650" in its name represents its size specification, with a diameter of 18mm and a height of 65mm. This standard size makes 18650 lithium batteries widely used in various devices, including portable electronic devices, electric tools, electric vehicles, etc.

### ESS



### 18650 Equivalent, Types, Dimensions, Uses, and ...

AA batteries are alkaline, non-rechargeable, and low-drain batteries whereas 18650 batteries are lithium-ion, rechargeable, and high-drain batteries. 18650 battery equivalent There are not many exact equivalents for ...

### What is a 18650 Battery?

Most devices that use 18650 batteries will have the battery type listed in the specifications or on the battery compartment. It is important to note that not all 18650 batteries are created equal. There are different types and sizes of batteries, such as the 16340 and 21700, which may not be compatible with your device.



114KWh ESS



### Comparing 18650 and 26650 Batteries: An In-Depth Guide

Key Takeaways: 18650 Batteries: Compact, affordable, ideal for consumer electronics. 26650 Batteries: Larger, higher capacity, perfect for high-drain applications. 18650 and 26650 represent two of the most popular lithium-ion battery size classes. But what exactly



## Comprehensive Guide To 18650 Lithium-Ion Batteries

Introduction to 18650 Lithium Ion Battery: As we know, 18650 stands for the physical size of the battery. Eighteen thousand six hundred fifty cells are 65mm long and 18mm in diameter. This is a simple explanation: the energy of an 18650 battery is 200-250 Wh/kg.



2MW / 5MWh  
Customizable



- IP65/IP55 OUTDOOR CABINET
- ALUMINUM
- OUTDOOR ENERGY STORAGE CABINET
- OUTDOOR MODULE CABINET

### 18650 battery

Overview Chemistry Packs Size variations Products using 18650 cells See also

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Spec. No. INR18650-35E Version No. Ver. 1.1  
Samsung SDI., Battery Business Division. 2 1.  
Scope This product specification has been prepared to specify the rechargeable lithium-ion cell ('cell') to be supplied to the customer by Samsung SDI Co., Ltd. 2.



### Cylindrical Li-ion Battery Pack Product Specification

Specification No. APL-2013517 Edition No. 1.0  
Cylindrical Li-ion Battery Pack Product  
Specification Model: 18650 3.7v 4400mAh  
Prepared by: Liu Li Checked by: Zhu Qiang  
Approve by: Xiao Linping All 10 Sheets



Address:No.98, Fuzhou



## Contact Us

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<https://vdbconstruction.co.za>