



Li ion discharge rate chart





Overview

The lithium battery discharge curve can be obtained by plotting the relationship between the battery's operating voltage and discharge time, capacity, state of charge (SOC) (SoC), or depth of discharge (DOD) (DoD). The Panasonic NCR18650B Energy Cell (Figure 1) has high capacity but is less enduring when discharged at 2C. These curves provide valuable insight into voltage behavior, internal resistance, capacity, temperature. The lithium battery discharge curve and charging curve are important means to evaluate the performance of lithium batteries.



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[Characteristics of Rechargeable Batteries](#)

Charge and discharge currents are typically expressed in fractions or multiples of the c rate. The MPV (mid-point voltage) is the nominal voltage of the cell, and is the voltage that is measured when the ...

[Battery Discharge Rate Charts , Lead Acid, Agm, Gel and LifePo4](#)

Use the Battery Discharge Rate Charts to estimate battery runtime based on load, capacity, and discharge rate for various applications.

Warranty
10 years

LiFePO₄

Intelligent BMS

Wide Temp:
-20°C to 55°C



[How to Effectively Read Lithium Battery Discharge and Charging Curves](#)

Learn how to read lithium battery discharge and charging curves to analyze SoC, DoD, and C-rate, ensuring optimal performance and extended battery life.



[How to Read Lithium Battery Discharge and Charging Curves](#)

When a lithium battery is discharged, its operating voltage fluctuates over time. The lithium battery discharge curve can be obtained by plotting the relationship between the battery's ...



[Understanding Charge-Discharge Curves of Li-ion Cells](#)

This discharge curve of a Lithium-ion cell plots voltage vs discharged capacity. A flat discharge curve is better because it means the voltage is constant throughout the course of battery ...

[How to Analyze Li Battery Discharge and Charging Curve?](#)

This article details the lithium battery discharge curve and charging curve, including charging efficiency, capacity, internal resistance, and cycle life.



[The Complete Guide to LiPo Battery Discharge \(2025\): Understanding](#)

Master LiPo battery discharge--C-rate math, safe cutoff voltage, temperature effects, 2025 safety and standards. Actionable tips, tables, and checklists inside.

[What is Battery C Rate? Li-ion Discharge Rates & Safety Standards](#)



Battery C rate quantifies how quickly a battery charges or discharges relative to its total capacity. A 1C rating means a battery can deliver its full rated capacity in one hour. For example, a ...



[BU-501a: Discharge Characteristics of Li-ion](#)

Figure 6 examines the number of full cycles a Li-ion Energy Cell can endure when discharged at different C-rates. At a 2C discharge, the battery exhibits far higher stress than at 1C, ...



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