
Cylindrical 400mAh Lithium Battery: Powering Small Devices Efficiently

***Summary:** Discover how cylindrical 400mAh lithium batteries revolutionize compact electronics with lightweight design, stable performance, and versatile applications. Learn about industry trends, technical advantages, and practical use cases.

The cylindrical 400mAh lithium battery has become a cornerstone for *small-scale electronics*, offering an optimal balance between capacity and size. With the rise of wearable tech, IoT sensors, and portable medical devices, this battery type addresses critical demands for energy efficiency and space-saving designs. Did you know? Over 60% of hearing aid manufacturers now prefer lithium-based solutions due to their *longer cycle life* compared to traditional alternatives.

Key Applications Driving Demand

***Wearable Technology:** Smartwatches and fitness trackers require compact power sources.

***Medical Devices:** Glucose monitors and wireless thermometers rely on stable voltage output.

***IoT Sensors:** Low-power sensors in smart homes/offices need reliable energy storage.

"Lithium cylindrical cells under 500mAh are projected to grow at 8.2% CAGR through 2030, driven by miniaturization trends." Global Energy Storage Report 2023

These batteries excel in three areas:

***Energy Density:** 250 Wh/kg, ideal for space-constrained designs.

***Low Self-Discharge:** Loses less than 2% charge monthly during storage.

***Temperature Tolerance:** Operates reliably between -20°C and 60°C .

***Pro Tip:** Pair these batteries with low-energy Bluetooth modules (like BLE 5.3) to extend device runtime by 30

Performance Comparison Table

Battery Type	Cycle Life	Weight (g)	Cost per Unit	Li-ion 400mAh	500 cycles	8.5	\$1.20	NiMH 400mAh	300 cycles	11.2	\$0.90	Alkaline Single-use	9.8	\$0.30
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When sourcing cylindrical 400mAh lithium batteries, prioritize suppliers with:

UN38.3 and IEC62133 certifications

Customization options for terminal types

Batch consistency testing reports

Industry Spotlight: XYZ Energy Solutions

With 12 years in lithium battery R&D, XYZ Energy provides:

ODM/OEM services for specialized form factors

RoHS-compliant cells with 18-month warranty

Global logistics support to 50+ countries

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The cylindrical 400mAh lithium battery continues to enable innovation across consumer electronics and medical industries. By understanding its technical strengths and market applications, businesses can make informed decisions to enhance product performance and reliability.

FAQ Section

*Q: How long does a 400mAh battery last in continuous use?*A: Approximately 4 hours for devices drawing 80 current.



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*Q: Are these batteries rechargeable?*A> Yes, most support 500+ charge cycles with proper management.

*Q: Can they be used in high-vibration environments?*A: Absolutely. Their cylindrical design resists mechanical stress better than pouch cells.

For more information or to discuss your inverter and power system needs:

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