

PKCell: Global Leading 18650 Lithium Battery Exporter at CES International Exhibition in the US



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- Understanding the Importance of the 18650 Battery

Consumer electronics and energy storage are experiencing rapid growth, largely due to the high efficiency of rechargeable batteries. The cylindrical lithium-ion battery—most famously the 18650 format

(18mm in diameter by 65mm in length)—is at the core of this revolution. Due to its high energy density and proven reliability, this standardized cell is the preferred product for [PKCell](#), a global leading 18650 lithium battery exporter, across a wide range of applications.

The 18650: A Cornerstone Component for Portable Power Applications

18650 batteries have evolved from their origins in laptop computers to become the cornerstone of today's portable power applications. The 18650 battery is now utilized in a variety of high-value applications, such as high-end LED flashlights, power banks, and portable medical devices. It is also used to power auxiliary electric vehicles (EVs) and high-security alarm systems. The battery's ruggedness and its ability to be assembled into complex modular battery packs make it a great choice for small consumer electronics as well as larger industrial tracking and POS systems.

While other formats, such as the 21700 cell, have been developed to specifically cater to high-performance EV platforms like those of Tesla Motors Inc. (TSLA), the 18650 continues to dominate a large portion of the market. The 18650's well-established manufacturing ecosystem, cost-effectiveness, and the vast number of compatible products ensure that it will continue to play a vital role. It is not just about the legacy of the 18650; it is about a perfect combination of energy density, power output, and safety features that few formats can match. Continuous improvements in cathode materials—such as the adoption of Nickel-Manganese-Cobalt (NMC) and Lithium Iron Phosphate (LiFePO4) chemistries—further ensure the 18650 remains competitive by enhancing cycle life and thermal stability.

- **PKCell's Strategic Role in Navigating Market Dynamics**

Industry Focus: Safety, Performance, and Sustainability

Globally, the lithium-ion battery market is driven by constant demand for improved performance and safety. According to industry analysis, the focus is on innovation that increases energy density and improves cell lifespan while reducing thermal events. Sustainability is also a key market driver, forcing manufacturers to focus on recycling and ethically sourced materials.

PKCell's Commitment to Scale and Quality

Shenzhen PKCELL Battery Co., Ltd. is a key player within this dynamic ecosystem and has strategically positioned itself to meet these changing demands. The company is committed to the research, development, and production of Ni-MH/Ni-Cd, Ni-Zn, and rechargeable cells and chargers. Operating out of a professional production facility in Shenzhen with a capacity of approximately 500,000 units per month and an experienced team of around 520 employees, PKCell has made quality control and compliance the core of its business.

- **Quality Assurance and the CES Showcase**

Global Strategic Engagement at CES

PKCell's consistent presence at international events, such as the recent CES International Exhibition held in the US, underscores the company's commitment to the global market and highlights its latest innovations. As a premier global platform for consumer technology breakthroughs, CES allows PKCell to showcase its high-performance lithium 18650 solutions to buyers, distributors, and technology developers worldwide.

At the show, PKCell showcased its high-drain, specialized 18650 cells for electric vaping and power tools, alongside its long-life standard cells popular among manufacturers of GPS trackers and portable medical devices. Major industry exhibitions serve not only as a sales platform but also as a vital way to gain insights into global technology trends and end-user requirements. This information helps guide the company's R&D and product roadmap, especially in rapidly growing industries like IoT and mobile energy.

Quality as a Non-Negotiable Core Advantage

In a highly competitive industry where safety is paramount, the difference between leaders and followers often lies in the strength of quality control. PKCell distinguishes itself by treating quality as its primary core advantage.

- **Global Certification and Reliability**

Comprehensive Certification Portfolio

A comprehensive portfolio of certifications demonstrates the company's operational excellence. PKCell has successfully achieved ISO9001 certification for its management system, demonstrating a commitment to high-quality manufacturing processes. For the 18650 line, it is essential that its main products carry international safety and performance certifications, including IEC62133 and SGS.

UN38.3 Assurance for Global Export

The UN38.3 certification is crucial, as it proves the battery can withstand extreme conditions—such as vibrations, pressure changes, and temperature fluctuations—required for international export. It provides a guarantee of safety and reliability for clients abroad. PKCell's attention to compliance means its 18650 batteries can be deployed immediately in applications such as GPS units, GSM modems, automotive electronics, medical equipment, and e-cigarettes. By prioritizing verified and certified quality, PKCell's global clientele can significantly reduce their own compliance burdens.

- **Custom 18650 Battery Packs**

PKCell specializes in the design and manufacture of high-performance, reliable 18650 lithium battery packs, which serve as the energy foundation for many modern devices. From initial design to mass production, we offer a comprehensive partnership to ensure the battery pack perfectly matches your application needs.

Core Strengths and Parameters:

Fully Customizable Services: We offer tailored solutions for voltage (e.g., 7.4V, 11.1V, etc.), capacity, dimensions, connectors, and custom packaging.

Global Standards: Each pack is certified to meet international standards such as IEC, CE, and RoHS.

Versatile Configurations: PKCell can provide everything from simple 2S1P packs to complex multi-series modular packages.

- **Conclusion**

As the world continues to electrify and digitalize, the demand for high-performance, reliable power solutions like 18650 lithium batteries will only increase. By leveraging its strengths—a focus on 18650 technology, a commitment to quality through extensive certifications, and strategic global engagement at exhibitions like CES—PKCell maintains its leading position within the international battery supply chain.

For more information on PKCell's 18650 lithium battery products and enterprise qualifications, please visit: <https://www.batterypkcell.com/>



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