

SolarTech Power Solutions

Lithium battery pack 14500



Overview

What is a 14500 Lithium ion battery?

A 14500 Li-ion battery is a rechargeable cylindrical lithium-ion battery commonly used in modern portable electronic devices. It measures 14mm in diameter and 50mm in length. These batteries are favored for their high energy density and reliability.

Why are 14500 Li-ion batteries important?

The widespread use of 14500 Li-ion batteries impacts technology, economy, and sustainability. Their efficiency promotes the development of more advanced portable devices, minimizing the need for frequent battery replacements. Health concerns arise from improper disposal of batteries, so recycling programs are essential.

What are the specifications of a 14500 battery?

The most critical specification of a 14500 battery is its voltage. A standard 14500 li-ion battery operates at a nominal voltage of 3.7 volts. This is more than double the 1.5 volts of a typical alkaline AA battery. Its chemistry is lithium-ion, which allows it to be recharged hundreds of times.

Can 14500 batteries be recharged?

Most 14500 batteries are rechargeable. They can be charged, discharged, and recharged again for continued service. Some come with USB built-in charging ports, while others require an additional charger. They have an average life cycle count of up to 4,000.

What is the standard voltage for a 14500 Li-ion battery?

Voltage (V): The standard voltage for a 14500 Li-ion battery is typically around 3.7 volts. Some batteries are designed to provide slightly higher voltages, which might be beneficial for specific applications. Understanding the voltage requirements of your device is crucial for optimal performance.

What is a 14500 mAh battery?

Capacity (mAh): The capacity of a 14500 Li-ion battery represents the amount of energy it can store, measured in milliampere-hours (mAh). Higher capacity indicates longer usage time before recharging is necessary. For instance, a battery rated at 3000 mAh will last longer than one rated at 2000 mAh under the same load.

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