

SolarInvert Energy Solutions

3-series high-rate lithium battery pack



Overview

What is a 3S lithium ion battery?

A 3S Li-ion battery is made up of three lithium-ion cells connected in series. These batteries are praised for their high energy density and long cycle life, meaning they can be recharged many times without significant loss of capacity.

What is a battery pack?

They may be configured in series, parallel or a mixture of both to deliver the desired voltage, capacity, or power density. Packs are identified by cell size, number of cells, battery structure, chemistry, chargeability, capacity, and voltage rating. Lithium-Ion Battery Products - Battery Packs are in stock at Digikey.

What is the difference between 2 & 3 s LiPo batteries?

A 2s lipo battery has two 3.7V cells making 7.4 volts. Whereas, in 3s lipo has three 3.7V cells making 11.1 volts. So the 3s battery has a higher voltage suitable for more power-demanding applications. Capacity: There is an extra cell in a 3s lipo battery compared to a 2s battery. An extra cell means an addition to the total battery capacity.

What voltage should a 3S lithium battery be charged to?

The fully charged voltage of a 3S lithium battery is 12.6V (4.2V per cell \times 3 cells). Charging to this voltage is considered the maximum safe level for most lithium-ion chemistries, including Li-ion, LiFePO₄, and LiPo. To avoid damaging the battery, it should not be discharged below 9.0V (3.0V per cell \times 3 cells).

What is a 3s LiPo battery?

LiPo stands for lithium polymer, and these batteries are quite popular in the world of high-performance applications. A 3S LiPo battery consists of three lithium polymer cells connected in series. These batteries are known for their

high discharge rates, which means they can deliver a lot of power very quickly.

How does a 3S lithium battery work?

A 3S lithium battery consists of 3 cells connected in series, each with a nominal voltage of 3.7V. Here's how the charging works: 3S lithium batteries have a nominal voltage of 11.1V ($3.7V \times 3$ cells). The fully charged voltage of a 3S lithium battery is 12.6V ($4.2V$ per cell $\times 3$ cells).

3-series high-rate lithium battery pack



Understanding Lithium Battery Configurations: ...

Apr 18, 2025 · Discover the different types of lithium battery cells, their configurations, and practical applications to create efficient and reliable energy ...

[Get Started](#)

Category: Lithium-ion batteries / pack

Our premium Lithium-ion battery packs ranging from 3.6V to 46.8V. Perfect for electric vehicles, portable devices, and industrial applications. High efficiency, ...

[Get Started](#)



EEMB Rechargeable Cylindrical Cell Batteries ...

EEMB Quality Lithium Battery Manufacturer 3.7V Lithium ion Cylindrical Cell LIR18650 3000mAh Li-ion 18650 Rechargeable (Secondary) 3C high ...

[Get Started](#)

Deep Dive into brand new Design and ...

The evolution of lithium-ion battery technology has revolutionized the energy storage landscape. As the demand for efficient and sustainable energy ...

[Get Started](#)



A Detailed Guide About 3 S LiPo Batteries

Jun 6, 2024 · 3s Lipo is a rechargeable battery based on lithium-ion technology. It uses polymer electrolytes instead of liquid electrolytes. It is a high energy ...

[Get Started](#)

Introduction: What Is a Lithium-Ion Battery Pack?

Jul 4, 2025 · Lithium-ion battery packs are essential power sources used in medical equipment, drones, robots, and countless other devices. These packs are made of multiple Li-ion cells ...

[Get Started](#)



Understanding the limitations of lithium ion batteries at high rates

May 1, 2021 · Charging lithium ion cells at high rates and/or low temperatures



can be detrimental to both electrodes. At the graphite anode, there is a risk of lithium plating rather than ...

[Get Started](#)

Understanding Li-Ion Battery Packs: A Complete Guide

Aug 8, 2024 · Explore Li-ion battery packs in detail, from their chemistry and composition to benefits and customization options with Ufine.

[Get Started](#)



Lithium-Ion Battery Packs , Electronic ...

They may be configured in series, parallel or a mixture of both to deliver the desired voltage, capacity, or power density. Packs are identified by cell size, ...

[Get Started](#)

21700 Batteries - High Drain Rechargeable Li ...

Which 21700 battery is best? Shop high drain 21700 Li-ion batteries--Molicel, Samsung, EVE--for e-bikes, tools &

flashlights from 18650 Battery Store.

[Get Started](#)



- ✓ IP65/IP55 OUTDOOR CABINET
- ✓ OUTDOOR TELECOM CABINET
- ✓ OUTDOOR ENERGY STORAGE CABINET
- ✓ 19 INCH

Rechargeable Lithium Battery

Find here Rechargeable Lithium Battery, Lithium Rechargeable Battery manufacturers, suppliers & exporters in India. Get contact details & address of ...

[Get Started](#)

3 Series Lithium Ion Battery Pack

Jul 6, 2022 · Get the bestselling 3 series lithium ion battery pack on Alibaba at unrivaled discounts and enjoy high-performance output. The 3 series lithium ion battery pack are ...

[Get Started](#)



Study on the Charging and Discharging ...

Sep 13, 2018 · This solution is based on treating and filtering a time series in real-time software, using the battery pack



characteristic discharge curve and time ...

[Get Started](#)

Lithium-Ion Information Guide , Houston, Texas USA

Lithium-Ion Information Guide - Technology Profile Battery packs built to customer specifications using Lithium-Ion and Lithium-Polymer cells have been Designed and Developed at SWE for ...



[Get Started](#)



18650 Batteries , Samsung 25R, Sony VTC6, ...

Shop genuine 18650 Li-ion batteries: Samsung 25R/30Q/35E, Sony VTC6, Molicel P26A/P28A/P30B & more. Flat top, button top & protected cells with ...

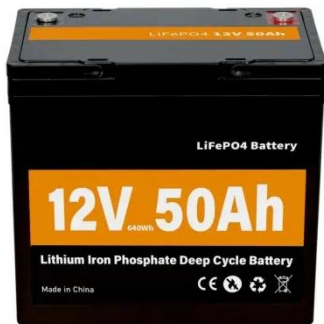
[Get Started](#)

A Detailed Guide About 3 S LiPo Batteries

Jun 6, 2024 · Part 1. What does 3S mean on a LiPo battery? 3s Lipo is a rechargeable battery based on lithium-

ion technology. It uses polymer ...

[Get Started](#)



Useful Guide to 3.7 V 18650 Battery

Apr 25, 2024 · The 3.7V 18650 battery is a rechargeable lithium-ion cell with a standard nominal voltage of 3.7 volts. Its name derives from its dimensions: ...

[Get Started](#)

LITHIUM-ION BATTERIES

Jan 6, 2024 · NPP Power focuses on R&D, manufacturing and sales of traditional and new energy products, including valve-regulated lead-acid batteries and lithium batteries. At present, the ...

[Get Started](#)



A Comprehensive Guide to High Rate Discharge ...

Dec 15, 2023 · High-rate lithium polymer batteries offer superior performance in terms of power, discharge, and life cycle



due to the stacking process in ...

[Get Started](#)

Ultimate Power: Lithium-Ion Batteries In Series

Apr 4, 2024 · At some point, the 3.6 V of a single lithium ion battery just won't do, and you'll absolutely want to stack Lilon cells in series. When you need high ...

[Get Started](#)



High Rate Discharge Battery , Ufine Battery ...

Feb 21, 2024 · High Rate Discharge Battery High discharge lithium battery is mainly used in high current discharge equipment, such as toy airplanes and ...

[Get Started](#)

Battery Pack Thermal Design

Aug 17, 2016 · Selecting a high-performing design is just a start Series and parallel integration of cells to achieve required Required energy and

power

[Get Started](#)



Integration issues of lithium-ion battery into electric vehicles

Feb 1, 2016 · In this work, the integration of Lithium-ion battery into an EV battery pack is investigated from different aspects, namely different battery chemistry, cell packaging, electric ...

[Get Started](#)

High Density Lithium Polymer Battery 3.7V ...

Mar 28, 2025 · Battery Terminations: PC Pins (Horizontal) / (Vertical), SMT (SMD) Mount, Solder Tabs, Wires, Cables with Connectors. Battery ...

[Get Started](#)



3.7V High C Rate Lithium Polymer Battery ...

The LPHD5735062 3.7V 1000mAh 35C



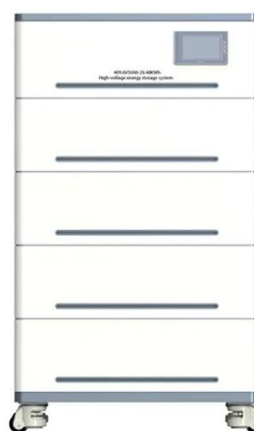
3.7Wh is one of our popular High C Rate rechargeable lithium polymer batteries, you can buy some batteries to test or ...

[Get Started](#)

Understanding 3S Lithium Polymer Batteries: ...

Nov 12, 2024 · The 3S lithium polymer battery represents the ideal balance of lightweight design, high power, and efficiency. It's especially known for its ...

[Get Started](#)



BU-302: Series and Parallel Battery Configurations

BU-302: Configuraciones de Baterías en Serie y Paralelo (Español) Batteries achieve the desired operating voltage by connecting several cells in series; ...

[Get Started](#)

Optimization of lithium-ion battery pack thermal ...

Feb 1, 2025 · This study fills that void by thoroughly examining how battery tabs, busbars, electrical configurations (series-

parallel), and discharge rates collectively influence both ...

[Get Started](#)



EV design - battery calculation - x-engineer

Individual battery cells are grouped together into a single mechanical and electrical unit called a battery module. The modules are electrically connected ...

[Get Started](#)

Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://persianasaranda.es>