

## European Solar and Energy Storage Solutions

# Jordan cell block for lithium batteries



## Overview

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CellBlock FCS provides modern solutions for a lithium-powered world. Stored energy is increasingly present in our lives. CellBlock strives to match the speed of emerging technology with engineered products that address safety concerns at every level — from development to deployment.

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The most trusted name in battery safety provides proven solutions to help you store or ship lithium-ion batteries. CellBlockEX is the environmentally-friendly, mineral-based extinguishing agent used for fire fighting and prevention of problematic fires including metal, lithium-ion battery cells, and combustible liquids.

CellBlock battery cabinets, cases and charging racks are a superior solution for the safe handling of lithium-ion batteries and devices containing them. Our practical, durable solutions use CellBlockEX to provide rapid fire-suppression, to keep your assets and personnel safe from the inherent hazards of lithium-ion battery fires.

The most effective agent available for extinguishing lithium-ion battery fires, our flagship product is at the heart of our patented fire containment solutions.

CellBlockEX is the environmentally-friendly, mineral-based extinguishing agent used for fire fighting and prevention of problematic fires such as metal fires, lithium-ion battery fires, and combustible liquids.

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### CellSafe Storage and Shipping Drums

CellSafe® Battery Pail and Drum Kits are a safe solution for the collection, storage and shipping of lithium-ion batteries. Using CellBlockEX technology, this packaging provides reusable, reliable protection from thermal runaways.

### Lithium Block(TM) -- Modular 18650 Battery Pack , CIE Solutions

Lithium Block is an easy to integrate, durable, and affordable Battery Pack that allows our client to combine 18650 cells into new designs while cutting costs Meet Lithium Block(TM). This durable battery pack has a design that allows our customers to incorporate 18650 cells into new designs while reducing the cost and accelerating manufacturing.



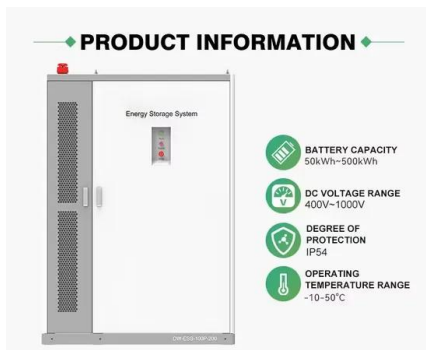
### Battery Storage and Charging Solutions

CellBlock battery cabinets, cases and charging racks are a superior solution for the safe handling of lithium-ion batteries and devices containing them. Our practical, durable solutions use CellBlockEX to provide rapid fire-suppression, ...

### CellBlock Battery Cases

Need to ship lithium-ion batteries by ground or sea? CellBlock FCS battery cases provide a safe, reliable, and compliant way to send batteries from point A to point B. In the event of a thermal runaway, our battery storage and transportation

...



## Fused molecules are building blocks for safer lithium-ion batteries

At the top of Zhong's list of potential topics was finding a way to make a safer lithium-ion battery. In conventional lithium-ion batteries, the ions are shuttled along via liquid electrolytes. But liquid electrolytes can form spiky dendrites between the battery's anode and cathode, which short out the battery or, in rare cases, explode.

## Free-Standing Carbon Materials for Lithium Metal Batteries

As an alternative to the graphite anode, a lithium metal battery (LMB) using lithium (Li) metal with high theoretical capacity (3860 mAh g<sup>-1</sup>) and low electrochemical potential (standard hydrogen electrode, SHE vs. -3.04 V) as an anode material is an attractive anode system for high energy density batteries (Figure 1A). 7, 8 Furthermore, Li



## Battery Storage and Charging Solutions

CellBlock battery cabinets, cases and charging



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## The LIBIK Lithium-Ion Battery Incident Kit

CellBlock's Lithium Ion Battery Incident Kit (LIBIK) is a full line of battery fire suppression tools that are versatile, simple and effective. The LIBIK is a robust solution to a wide variety of battery fire situations in personal electronic ...



## CellBlockEX Lithium-ion Fire Suppressant

The most trusted name in battery safety provides proven solutions to help you store or ship lithium-ion batteries. CellBlockEX is the environmentally-friendly, mineral-based extinguishing agent used for fire fighting and prevention of problematic fires including metal, lithium-ion battery cells, and combustible liquids.

## In situ p-block protective layer plating in carbonate-based

In situ p-block protective layer plating in carbonate-based electrolytes enables stable cell cycling in anode-free lithium batteries Nature Materials ( IF 37.2) Pub Date : 2024-09-02, DOI: 10.1038/s41563-024-01997-8



## Block copolymer electrolytes for lithium metal batteries: ...

Li metal anode with the highest specific capacity (3860 mAh g<sup>-1</sup>) and the lowest potential (-3.04 V versus standard hydrogen electrode) is the holy grail of anode materials for lithium-ion batteries, namely lithium metal batteries (LMBs) [2]. Stringent demands for Li reversibility necessitate Coulombic efficiency surpassing 99.95% and



## Philips lithium Batteries

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## Progresses on advanced electrolytes engineering for high-voltage

[12], [13] The EEI should be robust enough to block harmful side reactions between the electrolyte and the This enables the NCM622 lithium battery to cycle stably at an ultra-high



voltage of 4.9 V and 200 cycles at 0.3C, achieving a capacity retention rate of 74.0 %, showing great potential for practical applications. 570 wh kg<sup>-1</sup>

## CellBlock LIBIK FireShield Blankets

It is an easily implemented heat barrier against lithium-ion battery fires. As with our standard Fire Shield, the extreme textiles used in our fire resistant blankets are rated for temperatures over 1000°C (1832°F). CellBlock's heat resistant blankets can also be manufactured in custom sizes.

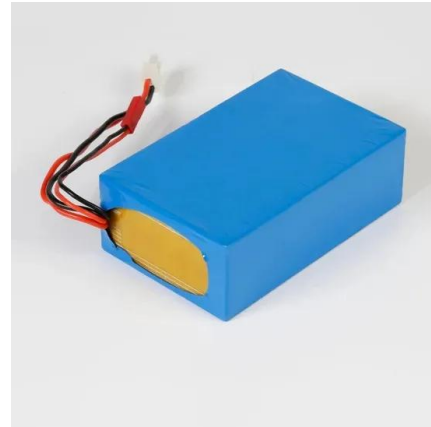


## Lithium-Ion Battery Fire Containment Systems

CellBlockEX is the environmentally-friendly, mineral-based extinguishing agent used for fire fighting and prevention of problematic fires such as metal fires, lithium-ion battery fires, and combustible liquids.

## CellBlock Battery Cases

Need to ship lithium-ion batteries by ground or sea? CellBlock FCS battery cases provide a safe, reliable, and compliant way to send batteries from point A to point B. In the event of a thermal runaway, our battery storage and transportation cases don't just contain battery fires; they completely suppress them with the help of our proprietary



## CellBlockEX Lithium-ion Fire Suppressant

The most trusted name in battery safety provides proven solutions to help you store or ship lithium-ion batteries. CellBlockEX is the environmentally-friendly, mineral-based extinguishing agent used for fire fighting and prevention of ...



- LIQUID/AIR COOLING
- ON GRID/HYBRID
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES

## CellBlock Fire Containment Systems & Safety Solutions

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