

ContainerPower Energy Solutions

PVC colloidal energy storage battery



Overview

Are polyjoule batteries safe?

Our batteries contain patented conductive polymer technology that eliminates thermal runaway risk, is non-toxic, fully recyclable, and free of rare-earth metals. Install a Polyjoule energy storage system anywhere—indoors or outdoors, in hot or cold environments—for unmatched safety and peace of mind.

Is PVC a good battery material?

While most conventional battery metals like lithium and nickel are geographically supply-chain constrained, PVC is a commodity produced, used, and recycled on every continent. Using a small percentage of global PVC production capacity, Polyjoule estimates it could serve half of the 2027 projected annual stationary storage demand.

Could polyjoule expand grid storage beyond lithium batteries?

Startup Polyjoule wants to expand grid storage beyond lithium batteries. A new type of battery made from electrically conductive polymers—basically plastic—could help make energy storage on the grid cheaper and more durable, enabling a greater use of renewable power.

What makes polyjoule batteries unique?

Polyjoule engineered a groundbreaking solution to battery safety, rare earth scarcity, and high cost of ownership—building batteries out of polymers—to power the future. Our batteries contain patented conductive polymer technology that eliminates thermal runaway risk, is non-toxic, fully recyclable, and free of rare-earth metals.

What conductive polymers are used in battery electrodes?

The conductive polymers that Polyjoule uses in its battery electrodes replace the lithium and lead typically found in batteries. By using materials that can

be easily created with widely available industrial chemicals, PolyJoule avoids the supply squeeze facing materials like lithium.

Is PVC a conductive polymer?

BILLERICA, Mass.-- (BUSINESS WIRE)--PolyJoule, Inc., a manufacturer of conductive polymer energy storage, has developed a new process that transforms PVC (polyvinyl chloride) into PolyJoule's patent-protected conductive polymers for use in batteries.

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