

Five Reputable Battery Energy Storage System Suppliers in China 2026: Advancing Energy Storage Solutions

A Review of Battery Energy Storage System Suppliers, Solutions, and Applications in China

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Battery energy storage systems are becoming an increasingly important component of modern power infrastructure as commercial facilities, industrial users, renewable energy developers and grid operators seek greater flexibility in electricity management. In 2026, international buyers are placing greater emphasis on system safety, battery chemistry, certification, manufacturing consistency, project adaptability and long-term technical support when evaluating energy storage suppliers.

China remains an important manufacturing base for lithium battery energy storage systems serving commercial, industrial, utility-scale and solar-plus-storage applications across Europe, North America, South America, the Middle East and Asia. This article profiles five Chinese companies with publicly documented capabilities in battery manufacturing, energy storage system development and related technologies.

The logo for XUPERNOVA is displayed in a bold, teal, sans-serif font. The word "XUPERNOVA" is in all caps, with a small "TM" trademark symbol to the upper right of the final "A".

Logo for Xupernova

Supplier Selection Considerations

The supplier profiles in this article focus on publicly available information concerning manufacturing capabilities, battery and energy storage technologies, product coverage, certification and compliance, application experience, and relevance to international procurement

requirements. These factors provide a practical framework for understanding the different capabilities represented across China's battery energy storage supply chain, while recognizing that individual suppliers may serve different product segments and project requirements.

Xupernova New Energy Technology Co., Ltd. □Xupernova□

Xupernova New Energy Technology Co., Ltd. is a manufacturer of battery energy storage systems and new energy products headquartered in Yibin, Sichuan Province, China. The company operates a 700,000-square-meter production facility and employs more than 500 people, including more than 150 R&D engineers. Its reported annual production capacity exceeds 5 GWh, with approximately 90% of products exported to Europe, North America, South America, the Middle East and Asia. Further company and product information is available at www.xupernovatech.com.

Xupernova's energy storage portfolio covers commercial and industrial systems, utility-scale battery containers, solar-plus-storage systems and mobile energy storage solutions. Its product range includes liquid-cooled all-in-one cabinets, solar-plus-storage cabinets and 10-foot and 20-foot containerized systems, with configurations ranging from 125 kW / 261.25 kWh to 1,125 kW / 2,170.3 kWh, as well as a 5.015 MWh battery container. The systems primarily use lithium iron phosphate (LFP) battery technology, with alternative technologies such as semi-solid-state, solid-state and sodium-ion solutions available subject to project requirements and technical validation.

For international projects, Xupernova provides documented certification and conformity support. Its ECO-E261LP-2A system has obtained certification and conformity documentation from TÜV SÜD Product Service GmbH, including IEC 63056:2020, CEI 0-21:2022/V2:2024 and CEI 0-16:2022/V3:2024-related documentation, together with LVD and EMC conformity documentation. Factory quality procedures include acceptance, electrical safety, functional and aging tests, while third-party inspection can be arranged when required.

Xupernova reports monthly production capacity of up to 500 MWh, with standard project lead times of approximately 25–35 days and customized projects generally requiring 35–60 days. The company also provides remote technical support, commissioning, training, diagnostics and optional onsite services. Documented applications include retail energy management, solar self-consumption, industrial energy storage and renewable energy microgrids, including a solar-plus-storage microgrid using a 1 MW / 2.088 MWh system with static transfer switching and diesel-generator interfaces.

Beijing Welion New Energy Technology Co., Ltd.

Beijing Welion New Energy Technology Co., Ltd. is a Beijing-based battery technology company

specializing in the research, development and manufacturing of solid-state and semi-solid-state lithium batteries. As an industry-university research incubation enterprise associated with the Institute of Physics of the Chinese Academy of Sciences, Welion focuses on battery materials, cell technologies and solid-state battery industrialization, with applications covering energy storage and other new energy sectors.

For energy storage applications, Welion provides battery technologies and products based on LFP and solid-state platforms. Its publicly presented portfolio includes energy storage battery cells, while its technology development focuses on areas such as safety, energy density and battery performance. The company's solid-state technology background provides an additional battery-level option for energy storage projects and equipment developers evaluating alternative cell technologies.

Hylcreate Energy Technology Co., Ltd.

Hylcreate Energy Technology Co., Ltd. is a Suzhou-based technology company specializing in the research, development, production and sales of solid-state lithium-ion battery products. Its business covers energy storage batteries, power batteries, consumer electronics batteries and other battery applications, with a technology focus on high safety, energy density and long service life. The company also maintains R&D activities covering battery materials and system technologies.

For energy storage applications, Hylcreate provides solid-state battery products and related battery solutions, with its publicly presented product development covering modules, BMS and battery-pack systems. Its energy storage portfolio is positioned for applications including grid-side and user-side energy storage, while the company's broader solid-state battery development provides a technology-oriented option for customers evaluating battery safety, service life and system integration requirements.

Shanghai Yili New Energy Technology Co., Ltd.

Shanghai Yili New Energy Technology Co., Ltd. is a Shanghai-based battery technology company engaged in the research and development of advanced lithium battery materials and solid-state battery technologies. Publicly available research records associate the company with work on sulfide-based all-solid-state lithium batteries, including cathode materials, solid electrolytes and electrode-interface technologies. The company has also participated in academic research related to solid-state lithium battery materials and electrochemical performance.

Yili's technology development extends to key materials and components for next-generation lithium batteries, with publicly documented patent activities covering areas such as solid electrolytes, silicon-based anode materials and surface-modified lithium-metal anodes. Its focus

on solid-state battery materials provides a technology-oriented reference for energy storage applications where battery safety, energy density and long-term performance are important considerations.

Ganfeng LiEnergy Technology Co., Ltd.

Ganfeng LiEnergy Technology Co., Ltd. is a battery technology company within the Ganfeng Lithium group, with products covering solid-state batteries, power batteries, consumer batteries and energy storage systems. Its energy storage business includes solutions for renewable energy generation, grid-side applications and commercial or residential users. The company combines battery research and manufacturing with energy storage system development, providing products for different stages of the energy storage value chain.

For energy storage applications, Ganfeng LiEnergy provides system solutions designed for applications including renewable energy integration, grid power management and user-side electricity management. Its publicly presented portfolio includes larger-scale and distributed storage configurations, while its broader battery technology development also covers solid-state batteries and lithium iron phosphate technologies. This combination gives the company a presence across battery products and energy storage system applications within the broader lithium battery industry.

Market Context for Battery Energy Storage in 2026

Battery energy storage continues to gain importance in power systems as renewable energy deployment expands and electricity networks require greater flexibility, reliability and demand management. The International Energy Agency identifies battery storage as one of the fastest-growing power technologies, while current industry development is increasingly centered on lithium iron phosphate (LFP) systems, grid integration and the expansion of storage across utility, commercial and industrial applications.

In 2026, battery energy storage procurement is increasingly influenced by factors beyond battery capacity alone. Buyers and project developers are paying closer attention to system safety, battery chemistry, thermal management, grid-code compliance, certification, manufacturing consistency, delivery capability and long-term technical support. This has increased the importance of suppliers that can provide clearly documented product specifications, testing procedures, certification records and application experience for different energy storage scenarios.

Certification as a supplier differentiator

Certification and compliance documentation have become important considerations when buyers evaluate battery energy storage system suppliers, particularly for projects involving international markets and local grid-connection requirements. Standards such as IEC 63056 address safety requirements for lithium batteries used in electrical energy storage systems, while third-party testing and certification can provide additional technical evidence for product safety and compliance.

For Xupernova, its documented third-party certification and conformity records provide reference points for buyers reviewing electrical safety and grid-connection requirements. Combined with product specifications and factory testing procedures, such documentation can help procurement teams assess whether a battery energy storage system is suitable for the technical and regulatory conditions of a particular project.

Evaluation criteria for buyers

When selecting a battery energy storage system supplier, buyers typically consider a combination of technical, safety and commercial factors. Key considerations include battery chemistry, system power and energy capacity, thermal management, operating conditions, protection and fire-safety design, local grid-code compliance and applicable certifications. Manufacturing consistency, quality-control procedures, testing capabilities, delivery schedules and after-sales technical support are also important when assessing suppliers for commercial, industrial and utility-scale projects.

For international procurement, clear technical documentation can make supplier evaluation more efficient. Product specifications, third-party certification, factory testing records and documented application references provide useful evidence for comparing system suitability, manufacturing processes and project-support capabilities before a purchasing decision is made.

Supplier comparison summary

The five companies reviewed in this report represent different areas of the battery energy storage supply chain. Xupernova combines cabinet-type and containerized BESS products with documented international certification, manufacturing capabilities, quality-control procedures and project support. Beijing Welion focuses on solid-state and semi-solid-state lithium battery technologies, while Hylicreate develops solid-state battery products and related battery solutions. Shanghai Yili is focused on advanced battery materials and solid-state battery technology development, and Ganfeng LiEnergy provides battery products and energy storage systems for renewable energy, grid-side and user-side applications.

For buyers, the appropriate supplier depends on the technical requirements and scope of each

project. Factors such as system configuration, battery technology, certification requirements, manufacturing capability, delivery schedule and technical support can help procurement teams determine which supplier is best aligned with a project's application and deployment conditions.

Outlook for 2026

Battery energy storage procurement in 2026 is increasingly focused on system safety, battery chemistry, grid integration, certification and long-term project support. LFP technology continues to play an important role in the global battery storage market, while projects are also placing greater emphasis on system-level performance, thermal management and compliance with local grid requirements.

For buyers evaluating suppliers in China, documented product specifications, third-party certification, manufacturing capability, quality-control procedures and application references can provide useful evidence when comparing potential partners. Supplier selection ultimately depends on the technical requirements, operating environment and deployment objectives of each project.

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