Five Reputable Energy Storage Manufacturers in China in 2026: Residential and C&I Solutions for Global Markets

Meeting Global Standards, Serving Local Needs – Enabling the Energy Transition



Logo for Ginlong (Solis) Technologies Co., Ltd.

CALIFORNIA, CA, UNITED STATES, September 3, 2026 /EINPresswire.com/ -- China, August 26, 2026 — The global energy storage market is entering a period of sustained growth, driven by the increasing adoption of renewable energy, rising electricity costs, grid flexibility requirements and growing demand for reliable backup power.

Within this broader market, residential and commercial & industrial (C&I) energy storage are developing as two important distributed energy storage segments. Residential systems are increasingly used to maximize rooftop solar self-consumption, reduce household electricity bills and provide backup power. C&I systems, meanwhile, are being deployed by factories, warehouses, commercial buildings, agricultural facilities and other businesses to manage electricity costs, reduce peak demand, integrate solar generation and improve energy resilience.

China has become an important part of the global energy storage supply chain, supported by its large battery manufacturing base, power electronics expertise and increasingly comprehensive energy storage system capabilities. Chinese manufacturers now supply batteries, inverters, power conversion systems, energy management platforms and integrated energy storage solutions to customers across Europe, Asia-Pacific, the Middle East, Africa and other international markets.

Against this background, five China-based manufacturers frequently discussed in the global

energy storage industry are Ginlong (Solis) Technologies Co., Ltd., Pylon Technologies Co., Ltd., Dyness Digital Energy Technology Co., Ltd., Build Your Dreams (BYD), and Contemporary Amperex Technology Co., Limited (CATL).

The companies have different business models and areas of expertise. Some focus more heavily on battery systems, while others combine battery technologies with power electronics, energy management and complete energy storage system integration.

Global energy storage market context

The expansion of renewable energy is creating demand for energy storage across multiple application scenarios.

In residential markets, the combination of rooftop photovoltaic systems and batteries allows homeowners to store excess solar electricity during the day and use it when electricity prices are higher or solar generation is unavailable. Time-of-use tariffs, grid reliability concerns and the increasing penetration of distributed solar are further supporting demand.

C&I energy storage is developing for somewhat different reasons. Commercial and industrial electricity consumers can have substantial differences between peak and off-peak electricity prices, as well as significant power demand during business or production hours. Battery energy storage can therefore be used to shift electricity consumption, reduce peak demand, increase photovoltaic self-consumption and provide backup power.

Typical C&I applications include:

Manufacturing facilities

Warehouses and logistics centers

Commercial buildings

Shopping centers and retail facilities

Hotels and hospitality facilities

Agricultural and food-processing facilities

Data centers and other power-sensitive businesses

Microgrids and distributed renewable energy projects

Compared with residential systems, C&I energy storage generally involves larger power and energy capacities, more complex load profiles and more
demanding system integration requirements.

As a result, C&I buyers increasingly evaluate not only battery capacity, but also power conversion efficiency, EMS capabilities, thermal management, safety architecture, grid compatibility, scalability, remote monitoring and long-term operation and maintenance.

Five China-based energy storage manufacturers to know in 2026

Ginlong (Solis) Technologies Co., Ltd.

Ginlong (Solis) Technologies Co., Ltd. (stock code: 300763.SZ) was founded in 2005 and is headquartered in Ningbo, Zhejiang. The company was listed on the Shenzhen Stock Exchange in 2019 and is a manufacturer of photovoltaic inverters and energy storage solutions.

Its energy storage business, SolisStorage, covers three major application scenarios: residential, commercial and industrial (C&I), and utility-scale energy storage.

Solis brings a power-electronics background to the energy storage market. Wood Mackenzie ranked Solis as the world's number one residential photovoltaic inverter shipper in 2023, giving the company an established base among solar installers and distributors worldwide. Solis says its products are used in more than 100 countries and regions, supported by overseas service centres, remote technical support and on-site service capabilities.

In 2026, Solis was also included in Tier 1 PV inverter lists released by international industry research organizations including S&P Global Energy and BloombergNEF (BNEF). Solis was first included in BloombergNEF's Tier 1 list in 2023 and has subsequently received the recognition for multiple years.

Residential energy storage

For homeowners, Solis provides integrated solar-plus-storage solutions designed around self-consumption, backup power and intelligent energy management.

The company's residential energy storage portfolio includes different battery capacities, inverter power levels and system configurations to accommodate different household electricity consumption patterns.

A key aspect of the residential product strategy is system integration. Rather than treating the

battery as an isolated component, Solis combines power conversion, battery management, energy management and monitoring into coordinated storage solutions.

The company's digital energy management capabilities also support intelligent monitoring and optimization of residential energy systems, helping users understand PV generation, battery status, household consumption and energy flows.

C&I energy storage

Solis also extends its energy storage technologies into the commercial and industrial market, where system requirements are generally more complex than those of residential installations.

C&I energy storage systems can be used for:

Peak-valley electricity price arbitrage

Peak demand management

Photovoltaic self-consumption

Backup power

Renewable energy integration

Energy cost optimization

Microgrid applications

For C&I customers, Solis focuses on system-level integration of PCS, battery storage, EMS and other electrical components, depending on the product configuration and project requirements.

Integrated C&I energy storage systems can help simplify installation and commissioning while reducing the need for complex coordination between multiple independent components. Modular architectures can also allow system capacity to be configured according to the power demand and available installation space of individual projects.

This broader approach allows Solis to address energy storage projects ranging from distributed residential systems to larger C&I and utility-scale applications.

Intelligent energy management

Energy management software is becoming increasingly important as energy storage moves beyond simple backup applications.

Solis provides digital monitoring and energy management capabilities through its SolisCloud ecosystem. The platform can provide visibility into PV generation, battery charging and discharging, electricity consumption and system operating conditions.

The company's Solis AI capabilities are designed to further improve intelligent energy management by analyzing energy consumption, electricity pricing and other operating conditions to optimize charging and discharging strategies.

For C&I customers, intelligent energy management can be particularly relevant because the economic value of storage is often linked to when energy is consumed, when the battery is charged or discharged, and how the system interacts with PV generation and grid demand.

Safety and international certification

For both residential and C&I projects, safety certification and compliance with local electrical requirements are important considerations.

According to company documentation, Solis storage-related certifications include IEC 62619, IEC 63056, CE marking and EMC compliance, with relevant products certified by TÜV to IEC 61000-6-2 / IEC 61000-6-4.

These certifications provide an important reference for international customers evaluating energy storage products for different markets and regulatory environments.

Pylon Technologies Co., Ltd.

Pylon Technologies, based in Shanghai, is a lithium-battery manufacturer with a strong focus on residential and light-commercial energy storage.

The company is known for rack-mounted and wall-mounted battery systems based on lithium iron phosphate (LFP) technology. Its products are commonly designed to work with hybrid inverters from multiple inverter manufacturers, making compatibility an important part of its market positioning.

Pylon's portfolio includes low-voltage and high-voltage battery configurations with integrated battery management systems. These systems can be used for residential solar self-consumption, backup power and off-grid applications, as well as selected commercial installations.

The company's modular battery approach allows storage capacity to be configured according to different project requirements. Pylon has also established a distribution and installer presence in European markets and continues to expand internationally.

Its primary strength lies in providing flexible battery storage systems that can be integrated into different solar and energy management configurations.

Dyness Digital Energy Technology Co., Ltd.

Dyness Digital Energy Technology designs and supplies battery energy storage systems for residential, commercial and other distributed energy applications.

Its portfolio includes tower-style, wall-mounted and modular LFP battery systems. Modular architectures allow customers to configure or expand storage capacity according to household or business electricity requirements.

In residential applications, Dyness systems can support solar self-consumption, backup power and off-grid energy systems.

The company also serves commercial and industrial applications, where multiple battery modules can be combined to provide larger storage capacities.

Dyness primarily operates through installer and distributor networks across Europe, Southeast Asia and other international markets. Its market positioning centers on flexible battery solutions that can be integrated with different photovoltaic and energy management systems.

Build Your Dreams (BYD)

BYD, headquartered in Shenzhen, is one of the world's largest manufacturers of electric vehicles and rechargeable batteries. Its energy storage business covers residential, commercial, industrial and utility-scale applications.

One of BYD's key characteristics is its vertical integration across battery cell manufacturing, battery systems and energy storage technologies. The company produces its own LFP battery cells, giving it significant control over battery manufacturing and supply.

In residential markets, BYD batteries are widely used as part of solar-plus-storage solutions in Europe, Australia and other regions.

The company's battery technologies are also deployed in larger commercial and utility-scale

energy storage projects. For C&I buyers, BYD's manufacturing scale can be relevant where long-term supply stability, battery technology, scalability and manufacturing capacity are important procurement criteria.

Its broad product portfolio allows BYD to participate in energy storage projects ranging from distributed residential systems to large-scale energy infrastructure.

Contemporary Amperex Technology Co., Limited (CATL)

CATL, headquartered in Ningde, Fujian Province, is one of the world's largest battery manufacturers for electric vehicles and energy storage.

The company supplies lithium-ion battery cells, battery packs and energy storage systems for grid, commercial and industrial applications. Its large-scale manufacturing capabilities make CATL an important reference point for battery technology, supply-chain capacity and cost development in the global energy storage industry.

CATL is also a major upstream supplier of LFP cells to energy storage system integrators around the world. Its battery technologies are deployed across commercial, industrial and utility-scale projects where safety, cycle life, energy density and long-term supply stability are important considerations.

In the residential market, CATL works primarily through system partners and integrators, while maintaining its own energy storage product portfolio for larger-scale applications.

Residential and C&I energy storage: different applications, different requirements

Although residential and C&I energy storage systems share many underlying technologies, their priorities can differ significantly.

Residential energy storage is typically used in homes, rooftop solar systems and backup power, with the primary objectives of maximizing solar self-consumption, providing backup power and reducing electricity bills. These systems are generally distributed and smaller in capacity, serve household electricity consumption, use an EMS focused on household energy optimization, integrate with rooftop PV and provide household backup; their key procurement factors include safety, compatibility, installation and usability. In contrast, C&I energy storage is typically deployed in factories, warehouses, commercial buildings and other businesses for peak-valley arbitrage, demand management and solar optimization. These systems are generally larger, modular or integrated, serve commercial or industrial loads, require more complex load and tariff management, and may integrate rooftop, ground-mounted or other on-site PV. Their backup requirements focus on critical loads and business continuity, while key procurement factors include efficiency, scalability, safety, EMS, ROI and service.

For residential users, the purchase decision often focuses on battery capacity, inverter compatibility, backup functionality, installation convenience, safety and warranty.

For C&I projects, the decision is more closely linked to the economics and operating requirements of the site. Buyers may need to assess power rating, usable energy capacity, round-trip efficiency, battery degradation, cycle life, thermal management, EMS functionality, tariff structures, demand charges, grid connection requirements and total cost of ownership.

This distinction is important when comparing energy storage manufacturers because a company with strong residential battery products may not necessarily provide the same level of system integration for large C&I projects.

What should buyers consider when choosing an energy storage manufacturer?

There is no single specification that determines whether an energy storage manufacturer is appropriate for every project. The right supplier depends on the application, project scale, local regulations and expected operating conditions.

For residential energy storage

Homeowners and installers may consider:

Battery chemistry and safety

Battery and inverter compatibility

Usable energy capacity

Backup power capability

Installation flexibility

Monitoring and energy management software

Product certification

Warranty terms

Local technical and after-sales support

For C&I energy storage

Commercial and industrial buyers typically need to evaluate a broader set of technical and economic factors:

Rated power and usable energy capacity

Peak-valley tariff arbitrage

Peak demand management

Photovoltaic self-consumption

PCS conversion efficiency

Battery cycle life and degradation

Thermal management

Fire and electrical safety

EMS functionality

Grid compatibility

System scalability

Remote monitoring and O&M

Installation and commissioning requirements

Local service capabilities

Total cost of ownership

Expected project payback period

For international C&I projects, local technical support can be particularly important. Larger energy storage systems may require commissioning, preventive maintenance, troubleshooting and software support throughout their operating life.

The importance of system integration

As energy storage projects become more sophisticated, the role of the system integrator is becoming increasingly important.

A complete energy storage system may involve batteries, PCS or hybrid inverters, BMS, EMS, thermal management, safety systems, grid protection equipment and monitoring platforms.

When these components come from different suppliers, project developers and installers may need to coordinate compatibility, communication protocols, commissioning and after-sales support across multiple vendors.

Manufacturers that can provide a more integrated hardware and software architecture may therefore offer advantages in projects where installation efficiency, system coordination and long-term operation are important.

This consideration is particularly relevant in C&I energy storage, where the system must often respond dynamically to PV generation, electricity prices, industrial loads and grid conditions.

Outlook for residential and C&I energy storage

The global energy storage industry is evolving beyond a simple competition based on battery capacity and hardware pricing.

In residential markets, growth is being supported by rooftop solar adoption, electricity price differences, backup power requirements and the increasing use of intelligent home energy management.

In C&I markets, the value proposition is increasingly connected to electricity cost optimization, peak-demand management, renewable energy integration, backup power and energy resilience.

As energy storage adoption expands across Europe, Asia-Pacific, the Middle East, Africa and other regions, manufacturers are likely to compete increasingly on system efficiency, safety, intelligent energy management, product scalability, software capabilities and service infrastructure.

The five manufacturers discussed in this article represent different approaches to the energy storage value chain. Some are particularly strong in battery manufacturing, while others combine battery technologies with power electronics, system integration and energy management.

For buyers evaluating Chinese energy storage manufacturers in 2026, the most important consideration is therefore not simply the size of the battery or the price per kilowatt-hour. Instead, buyers should assess whether a manufacturer can provide the right combination of battery technology, power conversion, system integration, intelligent energy management, safety certification, scalability and long-term technical support for the intended application.

As residential and C&I energy storage markets continue to mature, manufacturers capable of delivering reliable systems across different scenarios are likely to play an increasingly important role in the global transition toward distributed and flexible clean energy.

Solis
Ginlong (Solis) Technologies Co., Ltd.
+86 574 6580 2188
email us here

This press release can be viewed online at: https://www.einpresswire.com/article/939329806

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.
© 1995-2026 Newsmatics Inc. All Right Reserved.