



ZHGPOWER

COMPANY & BRAND PROFILE

Industrial and Energy Storage Lithium Battery Solutions



ENGINEERED FOR RELIABLE POWER

OEM/ODM battery pack development, BMS integration and project support for energy storage, UPS, telecom and industrial applications.

Since 2007 Battery industry experience	Factory Area Approx. 5,000 m² Human manufacturing base	Annual Capacity 30-50 MWh Depending on product mix
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WHO WE ARE

A practical engineering partner, not just a battery supplier

Our lithium battery business began in Hong Kong in 2007. Shenzhen Zhgpower New Energy Co., Ltd. established its Shenzhen manufacturing base in 2012, bringing battery pack engineering, assembly, testing and international project support into one operation.

We develop and manufacture lithium battery solutions for customers whose applications require more than an off-the-shelf product: system matching, mechanical customization, BMS communication, environmental adaptation and dependable production support.



Manufacturing at a glance

Manufacturing base	Approximately 5,000 m ² in Humen
Production capacity	30-50 MWh per year, depending on product mix
Pack operations	Assembly, BMS integration, laser welding, aging and functional testing
Project flexibility	Prototype, small-batch, OEM/ODM and volume production support

SOLUTIONS

Battery systems built around real applications

Our product platform covers low-voltage and high-voltage systems, with electrical, mechanical and communication configurations selected according to the equipment, operating environment and project requirements.



ENERGY STORAGE

- 51.2V residential storage batteries
- Rack-, wall- and floor-mounted options
- Commercial and industrial high-voltage systems
- Solar, generator and hybrid applications

LEAD-ACID REPLACEMENT

- 12.8V and 25.6V LiFePO4 batteries
- UPS and backup power replacement
- Higher usable energy and longer service life
- Bluetooth and application-specific BMS options

UPS & TELECOM

- 48V telecom backup batteries
- 384V / 480V UPS battery systems
- Outdoor cabinet and remote monitoring options
- Communication integration for supported equipment

INDUSTRIAL BATTERIES

- AGV and AMR robot batteries
- Forklift and low-speed vehicle batteries
- Medical and specialized equipment batteries
- Custom voltage, capacity and enclosure design

ENGINEERING & QUALITY

Designed to integrate. Built to perform.

LiFePO4 Battery Pack

For Robot Applications

25.6V 30Ah | RS485 & UART Communication | High Performance & Reliable Power



- Designed for Robots**
Space-saving power supply solution for AMR, AGV, and service robots.
- RS485 & UART Communication**
Easy integration with robot controllers and intelligent systems.
- Safe & Reliable**
LiFePO4 chemistry ensures long cycle life, high safety, and stable performance.
- Customizable Solution**
Voltage, capacity, size, and communication protocols can be customized.

Communication Interface

RS485



UART





25.6V 30Ah
768Wh



LiFePO4 Cell
Safe & Long Life



RS485 & UART
Communication



Multiple Protection
BMS Built-in



2000+ Cycles
80% DOD



Custom Design
GEN/COM

COMMUNICATION & INTEGRATION

- RS485, CAN and UART communication
- Modbus and customized protocol support
- Smart BMS configuration and remote monitoring
- Protocol matching based on the inverter or UPS model
- Controlled sample testing when compatibility is not yet confirmed

Quality control throughout production

01	Incoming inspection	Cell, BMS and key-material verification
02	Cell matching	Capacity, voltage and internal-resistance control
03	Pack assembly	Welding, wiring, insulation and mechanical checks
04	Functional testing	Protection, communication and charge/discharge tests
05	Aging & final inspection	Performance verification before shipment



TRUST & PARTNERSHIP

Clear documentation. Responsive project support.

ZHGPPOWER is recognized as a National High-Tech Enterprise in China. Our manufacturing capabilities have also been independently assessed through an Intertek supplier verification program.



DOCUMENTATION & COMPLIANCE

Available documentation varies by product model, configuration and destination market. Relevant documents may include:

- UN38.3 and MSDS
- IEC 62619 documentation for applicable models
- RoHS and REACH documentation
- Transport reports and dangerous-goods shipping documents
- Cell- and component-level qualification documents on request

Why customers work with ZHGPPOWER

✓ Application-driven engineering and customization	✓ Flexible support from prototype to volume production
✓ BMS communication and system-integration capability	✓ Quality control from incoming materials to final aging
✓ Export experience serving customers in more than 30 countries	✓ Technical, documentation and after-sales support

Let's build the right battery solution

Share your application, load profile, system voltage, communication requirements and target quantity. Our team will evaluate the project and recommend a practical battery configuration.

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