QIWANG ENERGY
SHANDONG QIWANG BATTERY CO., LTD.

PRODUCT CATALOGUE

Battery products

Industrial traction batteries and stationary energy storage systems — LiFePO4 lithium and DIN lead-acid, engineered and built in-house.

SAFETY FIRST. CONSCIENCE-DRIVEN PRODUCTS.

Linyi Economic & Technological Development Zone, Shandong, China

info@qiwangny.com · www.qiwangny.com

Company profile

We build both chemistries under our own roof — LiFePO4 lithium and DIN lead-acid traction batteries — and we build them ourselves, from cell qualification through to the finished pack.

Shandong Qi Wang Battery Co., Ltd. was established in 2008 and is headquartered in Linyi, Shandong, the city China calls its logistics capital. We are a specialised energy-solution provider, working on the development, manufacture and sale of lithium power-battery systems for industrial vehicles and construction machinery, stationary energy storage batteries, lead-acid batteries and chargers.

The 150-mu site in the Linyi Economic and Technological Development Zone holds 110 mu of lead-acid production and 40 mu of lithium production, which gives us the full chain from R&D through to volume manufacturing. We work to a flexible-manufacturing model: custom design and technical support to your drawing, plus OEM and ODM cooperation.

In energy storage we work in lithium iron phosphate. The range covers home storage, high-voltage storage, commercial and industrial storage, and portable power, and it runs in home storage, C&I storage, UPS/EPS backup, power and telecommunications, wind and solar storage, and security monitoring.

Quality is the foundation we build on. We run a full-chain quality control system from raw-material purchasing to finished-goods release, so every unit meets high performance and high safety standards. Our products are exported to Europe and the Americas, Australia, Africa and Asia.

150 MU SITE	**5M** KWH / YEAR
40+ EXPORT MARKETS	**20+** R&D ENGINEERS

Source factory
Manufacturing in-house, from cell to finished pack.

In-house R&D
Our own design, BMS integration and validation.

Patents
A portfolio of invention and utility-model patents.

Strict quality control
Full-chain control, incoming material to release.

How we engineer

Four things carry the product: the pace we innovate at, the technical base we have built up, the control we keep over quality and safety, and the people doing the work.

Innovation as the motive force

Years spent going deep on technology, and innovation as the way we define what comes next. The resource base we have accumulated is not only our answer to you — it is the confidence behind a new generation of energy solutions.

Accumulated technical reserves

In the shift to new energy we are not only participants. We lead from the front on the strength of deep technical resources. For years we have concentrated on core lithium technology, building a technical system that runs from material innovation up to the system level, so that customers worldwide get safer, more efficient and more reliable energy solutions.

Quality and safety

Quality is life; safety is the floor. That runs through everyone here. We have built an independent, authoritative quality and safety control system covering the whole flow from incoming material to finished-goods release, and a zero-defect culture that guards the reliability of every single cell.

The technical team

We are a team of energy idealists — engineers and industry specialists. Every data point we verify comes out of repeated, rigorous measurement. On a production line where nothing is left to chance, manufacturing, physics and data science meet. We do not only solve problems; we define the shape of the next battery.

10,000
M² R&D CENTRE

100+
PROCESS TECHNOLOGIES

50+
PATENTS

10+
YRS AVG. TEAM EXPERIENCE

PRODUCT LINE 01

Forklift lithium battery

Lead-acid-to-lithium and diesel-to-electric conversions. Custom builds supported.

Forklift lithium batteries are the power source behind modern logistics and warehousing. Set against conventional lead-acid, the advantages are marked.

01 High energy density
In the same volume a lithium battery holds 2–3× the capacity of lead-acid. Longer runtime and far fewer charging stops.

02 Fast charging
One to two hours to full, against 8–10 hours for lead-acid. Charge as you go, with no dedicated charging room. Opportunity charging is supported.

03 Long cycle life
2,000–5,000 cycles, against roughly 500–1,000 for lead-acid — a service life of 5–10 years and a lower cost across the whole cycle.

04 Maintenance-free
No periodic watering and no equalising charge, so labour and maintenance cost both come down.

05 High efficiency
Round-trip efficiency above 95%, against roughly 70–80% for lead-acid. More of the energy you pay for comes back out.

06 Smart management
A built-in BMS monitors cell state in real time and provides over-charge and over-discharge protection, temperature control and fault warning.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

SPECIFICATIONS

	25.6 V 202 Ah	51.2 V 404 Ah	76.8 V 560 Ah	76.8 V 560 Ah
Rated voltage	25.6 V	51.2 V	76.8 V	76.8 V
Charge voltage	29.2 V	58.4 V	87.6 V	87.6 V
Capacity	5,171 Wh	20,684 Wh	43,008 Wh	43,008 Wh
BMS	200 A	300 A	300 A	300 A
Max. working current	202 A	404 A	560 A	560 A
Weight	65 kg	130 kg	320 kg	320 kg
Dimensions (mm)	650×200×550	800×530×404	990×550×610	990×550×610

Partial parameters shown. Custom builds supported.

PRODUCT LINE 02

Golf cart battery — flooded

Flooded (liquid-electrolyte) construction with an openable lid.

A flooded golf cart battery carries a large electrolyte reserve and can be serviced in the field — the right choice where scheduled inspection rounds exist.

01 Serviceable by design
The lid opens, so electrolyte level and specific gravity can be checked directly. Topping up and measurement are straightforward — well suited to sites with scheduled inspection rounds.

02 Good heat dissipation
A large electrolyte volume sets up convection during charge and discharge, so heat leaves the cell quickly. That helps under high-current discharge and in hot environments.

03 Tolerant of overcharge
The generous electrolyte reserve means mild overcharge mainly vents hydrogen and oxygen from water electrolysis, with comparatively little damage to the plates. Use in a well-ventilated area.

04 Long life under good maintenance
With scheduled equalising charges and electrolyte maintenance, both deep-cycle and float life run long — which is why the chemistry is common in demanding industrial duty.

05 Mature recycling
The lead-acid recycling chain is well established, with lead recovery above 99% and well-regulated environmental processing.

SPECIFICATIONS

	Model	Rated V	5 h — A	5 h — Ah	20 h — A	20 h — Ah	Dimensions (mm)
3-DG-180	6 V	36	180	10.5	210	L260×W182×H282	
3-DG-200	6 V	40	200	11.5	230	L260×W182×H282	
3-DG-210	6 V	42	210	12	240	L260×W182×H303	
3-DG-230	6 V	46	230	13	260	L260×W182×H303	
3-DG-240	6 V	48	240	13.5	270	L249×W192×H316	
4-DG-140	8 V	28	140	8.5	170	L260×W182×H289	
6-EVF-100 (II)	12 V	24	120	7.5	150	L327×W181×H277	
6-DG-120	12 V	17	85	5	100	L360×W174×H282	
6-DG-130	12 V	20	100	6	120	L360×W174×H290	
6-DG-140	12 V	24	120	6.5	130	L360×W174×H298	
6-DG-160	12 V	26	130	7.5	150	L360×W174×H300	

Partial parameters shown. Custom builds supported.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

PRODUCT LINE 03

Lifting platform lithium battery

Scissor lifts, boom lifts and aerial work platforms.

Against conventional lead-acid, lithium brings a marked advantage on lifting platforms.

01 High energy, long runtime
High energy density means more capacity in the same volume, longer working stretches between charges, and fewer stoppages.

02 Fast charging
High-current fast charge, typically two to four hours to full against 8–10 hours for lead-acid. Opportunity charging over breaks is supported.

03 Long life
Three to five times the cycle life of lead-acid, reaching 2,000–3,000 cycles and beyond — a lower cost over the whole life.

04 Maintenance-free
Fully sealed. No electrolyte to top up, no acid mist corrosion, and less maintenance labour.

05 Smart management
A built-in BMS monitors voltage, current and temperature in real time and provides over-charge, over-discharge, over-current and short-circuit protection, plus fault diagnosis and communications.

06 Wide operating range
Performance is less temperature-dependent, and holds up better than lead-acid in the cold.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

SPECIFICATIONS

	25.6 V 230 Ah
Rated voltage	25.6 V
Charge voltage	29.2 V
Capacity	5,888 Wh
BMS	200 A
Max. working current	230 A
Weight	55 kg
Dimensions (mm)	650×280×250

Partial parameters shown. Custom builds supported.

PRODUCT LINE 04

Golf cart battery — gel

Sealed gel construction for golf carts and light traction.

A sealed gel battery for golf carts, floor machines and light traction duty — maintenance-free and orientation-independent.

01 Truly maintenance-free
The electrolyte is gelled and solid. Fully sealed, no leakage, no topping up, and it can be mounted in any orientation.

02 Strong deep-cycle performance
Excellent resistance to deep discharge and quick recovery, which suits applications that cycle hard and often.

03 Low self-discharge
Long shelf life. Self-discharge stays below 3% a month at room temperature, so stock keeps longer.

04 Good across temperatures
Reliable cold starting, and less acid stratification in heat, so performance stays steady.

05 Safe in service
No liquid acid mist, and resistance to explosion and shock — it can be used in relatively enclosed spaces.

06 Long life
Design float life typically 8–12 years, and longer under cycling than a conventional flooded battery.

SPECIFICATIONS

	Model	Rated V	3 h — A	3 h — Ah	5 h — Ah	20 h — Ah	Dimensions (mm)
3-EVF-170	6 V	56.6	170	185	220	L260×W180×H250	
3-EVF-200	6 V	66.6	200	220	260	L260×W180×H273	
4-EVF-150A	8 V	50	150	170	185	L262×W180×H279	
4-EVF-150B	8 V	50	150	170	185	L262×W180×H279	
6-EVF-60	12 V	20	60	65	75	L262×W165×H169	
6-EVF-70	12 V	23.3	70	80	90	L260×W168×H210	
6-EVF-80	12 V	26.7	80	90	105	L259×W168×H210	
6-EVF-100	12 V	33.3	100	110	130	L330×W172×H214	
6-EVF-120A	12 V	40	120	135	120	L406×W176×H213	
6-EVF-120B	12 V	40	120	135	155	L407×W171×H240	
6-EVF-150	12 V	50	150	165	175	L483×W170×H240	

Partial parameters shown. Custom builds supported.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

PRODUCT LINE 05

Lithium battery for three- and four-wheel electric vehicles

Cargo trikes, passenger trikes and low-speed four-wheel EVs.

Against conventional lead-acid, lithium brings a marked advantage on three- and four-wheel electric vehicles.

01 High energy density
Lighter and smaller, yet it delivers a longer range.

02 Long life
Typically three to five times the cycle count of lead-acid, giving three to five years and more.

03 Fast charging
High-current fast charge shortens the charging stop.

04 High efficiency
Steadier discharge and stronger power output, for better hill climbing and acceleration.

Where they are used

Cargo trikes — express delivery, municipal cleaning, supermarket distribution

Passenger trikes — mobility scooters, school-run vehicles

Four-wheel EVs — micro low-speed passenger vehicles, mobility vehicles, low-speed four-wheelers

SPECIFICATIONS

	64 V 130	64 V 160	64 V 200	72 V 160	72 V 200	72 V 300
Rated voltage	64 V	64 V	64 V	76.8 V	76.8 V	76.8 V
Charge voltage	73 V	73 V	73 V	87.6 V	87.6 V	87.6 V
Capacity	8,320 Wh	9,600 Wh	12,800 Wh	12,288 Wh	15,360 Wh	23,040 W
BMS	120 A	160 A	200 A	150 A	200 A	300 A
Max. working current	65 A	80 A	100 A	80 A	100 A	150 A
Weight	55 kg	70 kg	85 kg	75 kg	90 kg	140 kg
Dimensions (mm)	650×280×250	680×320×250	680×320×250	680×320×250	680×320×250	730×480

Partial parameters shown. Custom builds supported.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

PRODUCT LINE 06

Special equipment lithium battery

Transfer cars, AGVs and other non-road industrial equipment.

Lithium brings a step change. The advantage comes down to four words: more efficient, more economical, less to look after, and smarter.

01 Smart management
A built-in BMS monitors cell state in real time and provides over-charge and over-discharge protection, temperature control and fault warning.

02 High energy density
In the same volume a lithium battery holds 2–3× the capacity of lead-acid. Longer runtime and fewer charging stops.

03 Fast charging
One to two hours to full against 8–10 hours for lead-acid. Charge whenever you like, with no dedicated charging room, and opportunity charging is supported.

04 Long cycle life
2,000–5,000 cycles, against roughly 500–1,000 for lead-acid, giving 5–10 years of service and a lower cost over the whole life.

05 Maintenance-free
No periodic watering and no equalising charge, so labour and maintenance cost both come down.

06 High efficiency
Round-trip efficiency above 95%, against roughly 70–80% for lead-acid. High energy recovery and lower running cost.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

SPECIFICATIONS

	51.2 V 1120 Ah	51.2 V 280 Ah
Rated voltage	51.2 V	51.2 V
Charge voltage	58.4 V	58.4 V
Capacity	57,344 Wh	14,336 Wh
BMS	600 A	300 A
Max. working current	1120 A	280 A
Weight	480 kg	120 kg
Dimensions (mm)	2000×680×300	730×380×388

Partial parameters shown. Custom builds supported.

PRODUCT LINE 07

Golf cart lithium battery

Drop-in lithium replacement for lead-acid golf cart packs.

Lithium brings a step change. The advantage comes down to four words: more efficient, more economical, less to look after, and smarter.

01 Smart management
A built-in BMS monitors cell state in real time and provides over-charge and over-discharge protection, temperature control and fault warning.

02 High energy density
In the same volume a lithium battery holds 2–3× the capacity of lead-acid. Longer runtime and fewer charging stops.

03 Fast charging
One to two hours to full against 8–10 hours for lead-acid. Charge whenever you like, with no dedicated charging room, and opportunity charging is supported.

04 Long cycle life
2,000–5,000 cycles, against roughly 500–1,000 for lead-acid, giving 5–10 years of service and a lower cost over the whole life.

05 Maintenance-free
No periodic watering and no equalising charge, so labour and maintenance cost both come down.

06 High efficiency
Round-trip efficiency above 95%, against roughly 70–80% for lead-acid. High energy recovery and lower running cost.

SPECIFICATIONS

	51.2 V 280 Ah	51.2 V 202 Ah
Rated voltage	51.2 V	51.2 V
Charge voltage	58.4 V	58.4 V
Capacity	14,336 Wh	10,342 Wh
BMS	300 A	200 A
Max. working current	280 A	230 A
Weight	120 kg	110 kg
Dimensions (mm)	730×380×388	730×340×300

Partial parameters shown. Custom builds supported.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

PRODUCT LINE 08

Stationary energy storage

Home storage, high-voltage storage, commercial & industrial storage, and portable power.

Lithium iron phosphate systems for home storage, C&I storage, UPS/EPS backup, power and telecommunications, wind and solar storage, and security monitoring.

01 LiFePO4 throughout
Lithium iron phosphate cells, chosen for thermal stability and long cycle life rather than peak energy density.

02 One module platform
Wall, rack, cabinet and portable formats come from a common cell and module platform, so spares and service stay simple.

03 BMS in every pack
Cell monitoring, balancing and protection sit at module and pack level — integrated, not bolted on.

04 Capacity to the site
Voltage and capacity are configured to the installation: a wall unit, a rack, a cabinet or a containerised system.

05 Communications built in
CAN and RS-485 interfaces for inverter and EMS integration, documented in our own protocol manual.

06 Prepared for export
Packaging and transport documentation are prepared for sea and air freight.

Built to order

Voltage, capacity, case dimensions and connector are specified to your truck, cart or machine. Send the model and the duty cycle and we return a pack specification, a dimensional drawing and an FOB price.

MODULE RANGE

Model	Format	Nom. V	Capacity	Energy	Configuration
LX-W51.2V100	Wall-mounted	51.2 V	100 Ah	5.12 kWh	Integrated BMS · IP65
LX-R51.2V100	Rack module	51.2 V	100 Ah	5.12 kWh	Hot-swappable · CAN / RS485
LX-R51.2V200	Rack module	51.2 V	200 Ah	10.24 kWh	Hot-swappable · CAN / RS485
LX-WJ11-5000W	Commercial & backup	51.2 V	—	7.5 kWh	5 kW inverter integrated
LX-ABS15-5000W	Portable & mobile	51.2 V	—	7.5 kWh	5 kW inverter integrated
LX-ABS12 Series	Custom enclosure	12.8 V	60 Ah	768 Wh	1 kW pure sine inverter

Supplied as finished assemblies — capacity-graded and insulation tested.

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THE RANGE

Forklift lithium battery	25.6 – 76.8 V · 202 – 560 Ah
Lifting platform lithium	25.6 V · 230 Ah
Three- and four-wheel EV lithium	64 / 76.8 V · 130 – 300 Ah
Golf cart lithium battery	51.2 V · 202 – 280 Ah
LiFePO4 cells & modules	capacity-graded, insulation tested
Golf cart battery, flooded	6 / 8 / 12 V · 85 – 270 Ah
Golf cart battery, gel	6 / 8 / 12 V · 60 – 220 Ah
Special equipment lithium	51.2 V · 280 – 1120 Ah
Stationary energy storage	12.8 – 51.2 V · 768 Wh – 10.24 kWh
Lead-acid traction, DIN	PzS / PzB / PzSH

ADDRESS
Linyi Economic & Technological Development Zone, Shandong, China

TELEPHONE
+86 539 777 1777

MOBILE / WHATSAPP
+86 150 5394 4567

EMAIL
info@qiwangny.com

WEB
www.qiwangny.com

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