



Xingdong Lithium Battery Technology Co., Ltd.

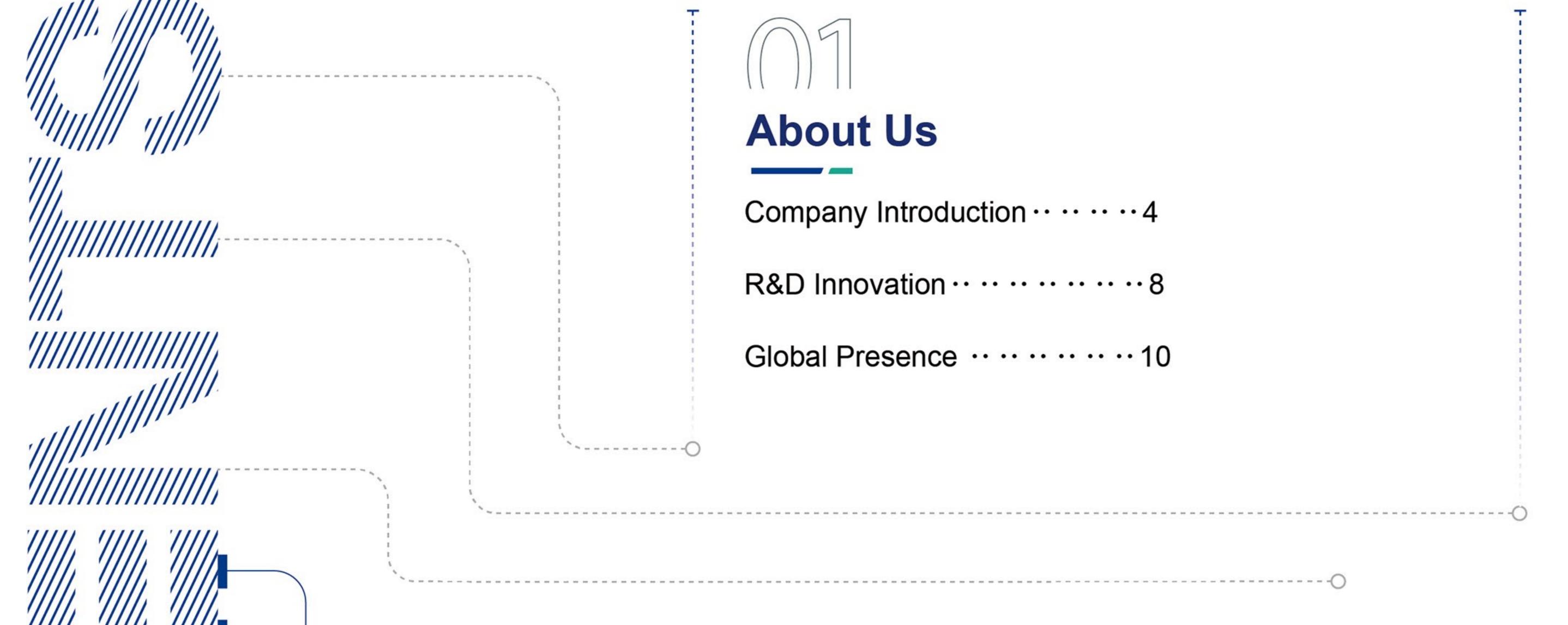
2 Longgang Street, Xingdong New District, Xingtai City, Hebei Province

www.xdlebattery.com



Pioneer in mass production of solid-state batteries and low-temperature batteries Pioneer in mass production of solid-state batteries and low-temperature batteries Leader of high-performance, lowtemperature-resistant large power systems

Xingdong Lithium Battery Technology Co.,Ltd.





Product System

Prismatic iron lithium battery	Power products	Energy storage products
Battery cell advantages · · · · 12	Engineering equipment · · · · 22	Home energy storage · · · · 27
Long cycle battery · · · · · 14	Mining truck/ Heavy truck battery · · · · · 23	Industrial and commercial Energy storage · · · · · · · 30
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All-solid-state battery · · · · 20		







Service Support

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Global locations · · · · · · · 10







Solid-state batteries

High-end military grade safty

Low-temperature

resistance

Large power

battery system

Meets the power needs of

large-heavy construction

machinery electrification

and low-temperature areas.



Low-temperature battery

Our current mass-produced low-temperature cells are capable of charging and discharging at temperatures ranging from -20°C to -35°C. We can also provide special customisation of multiple models in various capacities with high consistency.

Low-temperature areas Energy storage system

Can be used for stable and efficient charging and discharging in low-temperature and severe cold areas.

Provide power batteries, PACK systems and services for electrification of heavy construction machinery













Battery Cell

Modules

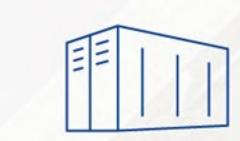
Battery pack

Electrification of construction machinery

Providing energy storage batteries, solutions and services for green energy storage









Electric cabinets

Energy storage

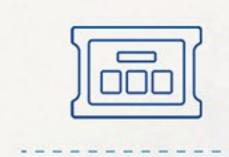
Energy storage power station



Industrial and commercial energy storage cabinets



Household energy storage



Portable power supply



Mobile charging station

R&D INNOVATION



Innovation for development

Our company firmly adheres to the core concept of "innovation for development" and regards innovation as the foundation of its existence. It gathers the industry's top technologies and continuously invests in research and development to ensure its leading position in the same level of industry.



Accumulation of technical resources

We have accumulated rich technical resources and technical achievements, and have jointly built postdoctoral bases and innovative practice bases with Hebei University of Science and Technology, Central South University, Jiangsu University, etc., undertaken industry technology research and development, and improved the industry's technical level.



R&D base

3 professional R&D bases, established in Xingtai, Zhangjiakou, Shenzhen and other cities





IPD R&D management system

In order to further improve R&D efficiency and innovation capabilities, the company introduced IPD to make the R&D process more efficient and standardized. These efforts have enabled the company to successfully create a number of advanced systems and products at home and abroad.



Technical team

Our company has established a talent training, introduction and mechanism, and has a team oftalents with cutting-edge technology in the industry.



Technical strength

Owns an independent R&D team of more than 300 people



10 +

Industry experience

The average industry experience of the R&D team is ≥ 10 years, Guarantee the processing level of key technologies



Industry-University-Research Platform



Hebei University of Science and Technology



Central South
University
Technology
development
collaboraion



Jiangsu University Technology transfer collaboraion



20000m+

R&D center area 20,000 m²+



200 +

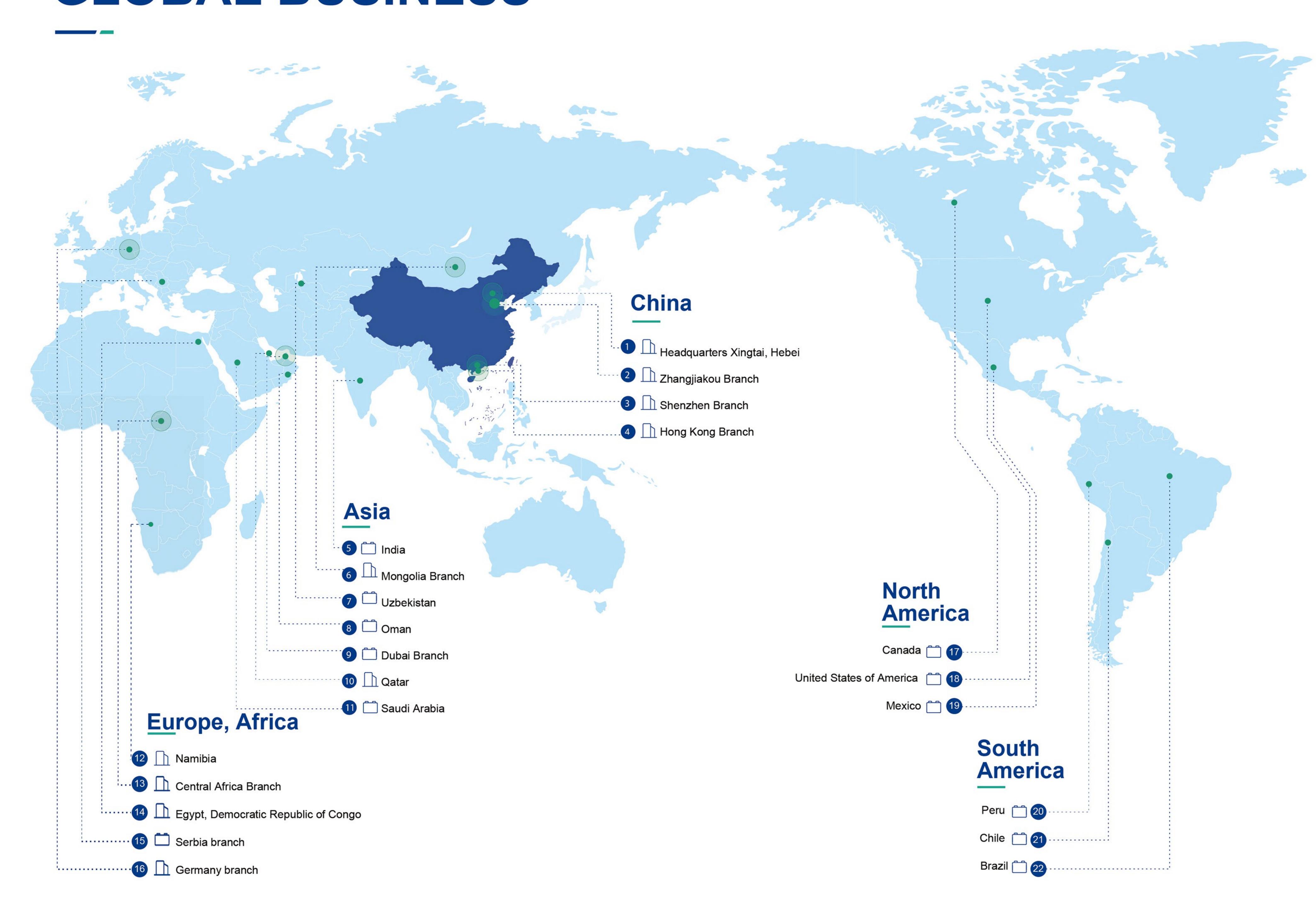
More than 200 process technologies



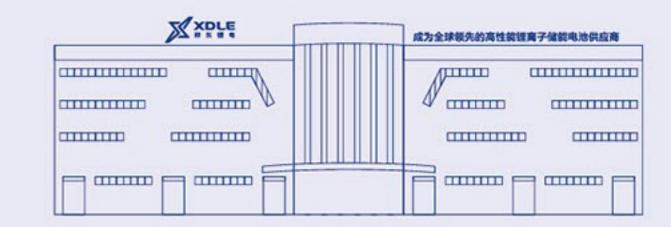
100 +

100+ patents, including 30+ invention patents and 70+ utility patents

GLOBAL BUSINESS



Headquarters: Xingtai, Hebei

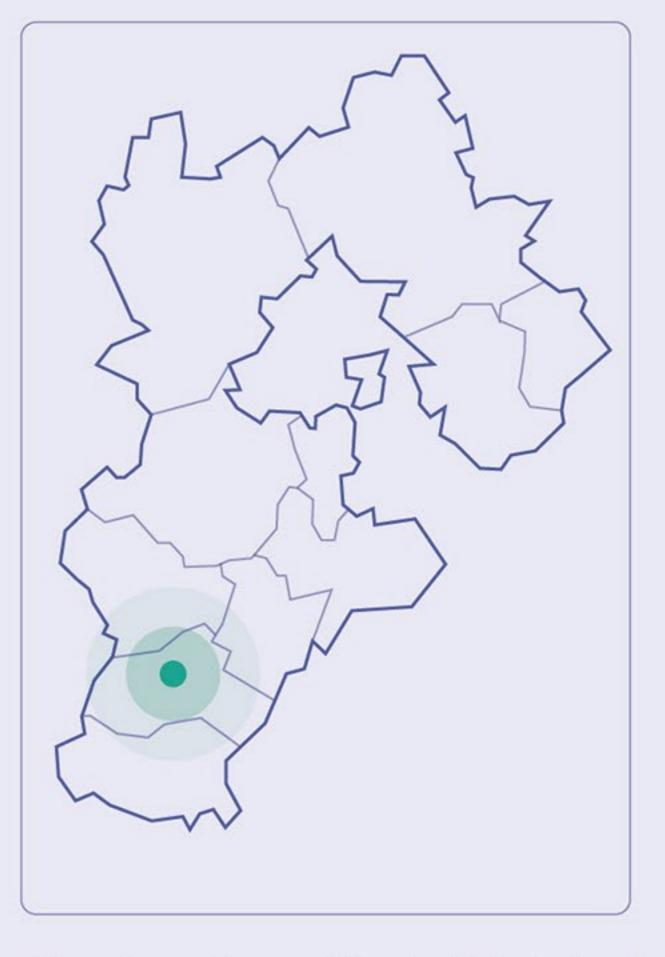


Eight branches

Zhangjiakou Huailai Branch, Shenzhen Branch, Hong Kong Branch, Germany Branch, Mongolia Branch, Serbia Branch, Central Africa Branch, Dubai Branch

> Global - national business dealings

Congo (DRC), Egypt, Uzbekistan, Qatar, United Arab Emirates, Dubai, Oman, Saudi Arabia, India, Bengaluru, Canada, United State of America, Mexico, Namibia, Peru, Chile, etc.



Headquarters: Xingtai High-tech Zone, Hebei Province

SMART MANUFACTURING

Xingdong Lithium Battery team has extensive experience in large-scale lithium battery manufacturing and the ability to provide stable, long-term output.

Leading Process



Our company's lithium battery production line uses industry-leading stacking technology, ensuring high performance and stability of the products.

Experienced Team



Our lithium battery manufacturing management team has an average of 15+ years of industry experience, ensuring continuous output of highquality products.

Efficient Production

Our fully automated production line can operate 24/7, significantly reducing the time from R&D to market.

Core Advantages



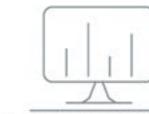
Full Automation

Our factory's MES system fully covers the production process. The entire line is automated, improving efficiency and quality.



Custom Services

The fully automated production line can be quickly adjusted according to demand, meeting customers' diverse needs.



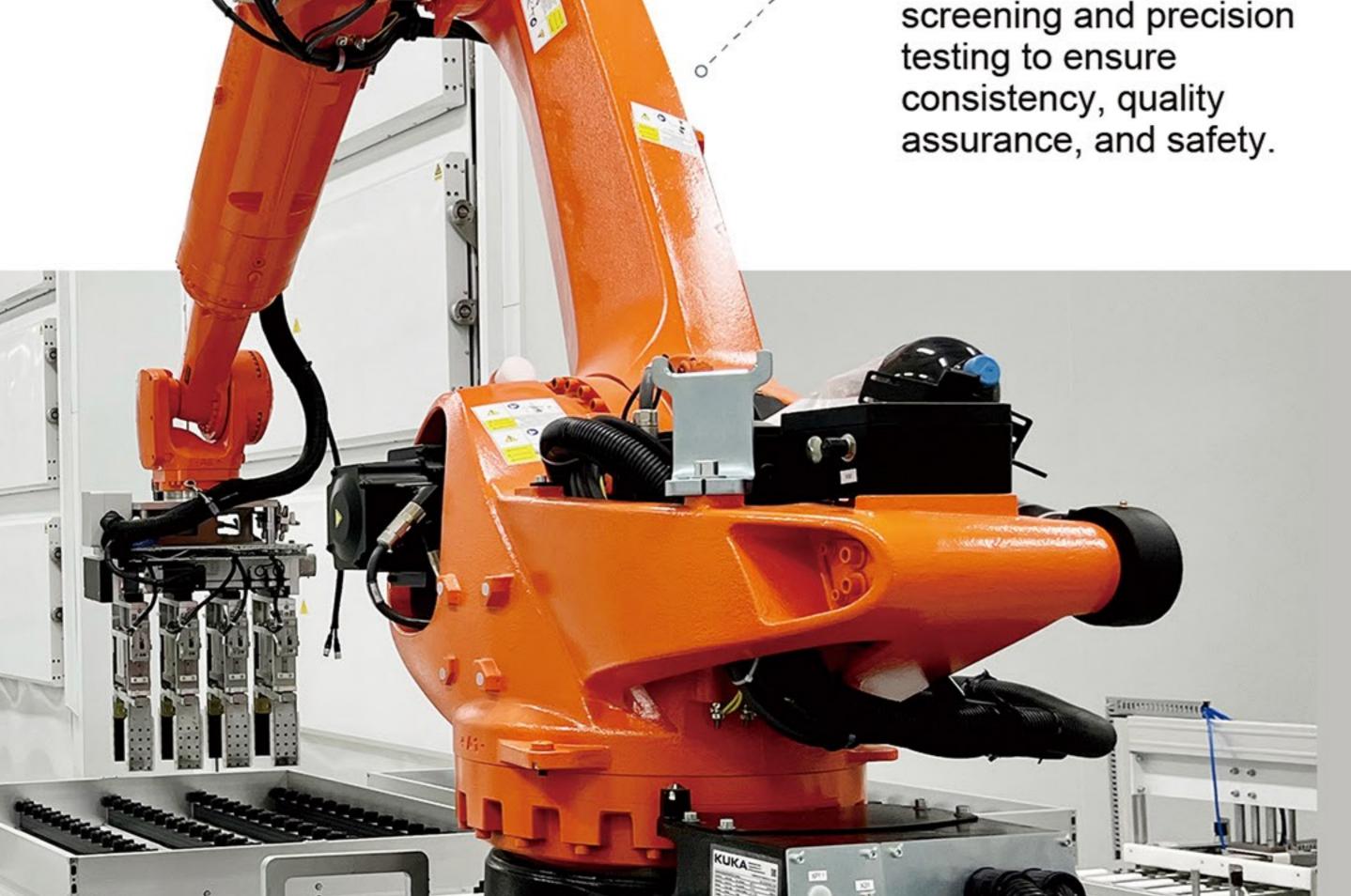
Precise Data Collection

The MES system collects data from up to 1800 points, ensuring real-time accuracy and supporting quality traceability and real-time anomaly alerts.



Safety Assurance

Each battery product undergoes 10 rounds of screening and precision









QUALITY BENCHMARK

Management

Our focus

R&D, Equipment, Process, Production, Quality, Data Collection, Warehousing

Online management reports for quality, production, equipment, and processes

Full-process product data

raceability from raw

product delivery

material input to final

Process control points stablish IATF16949 quality management system

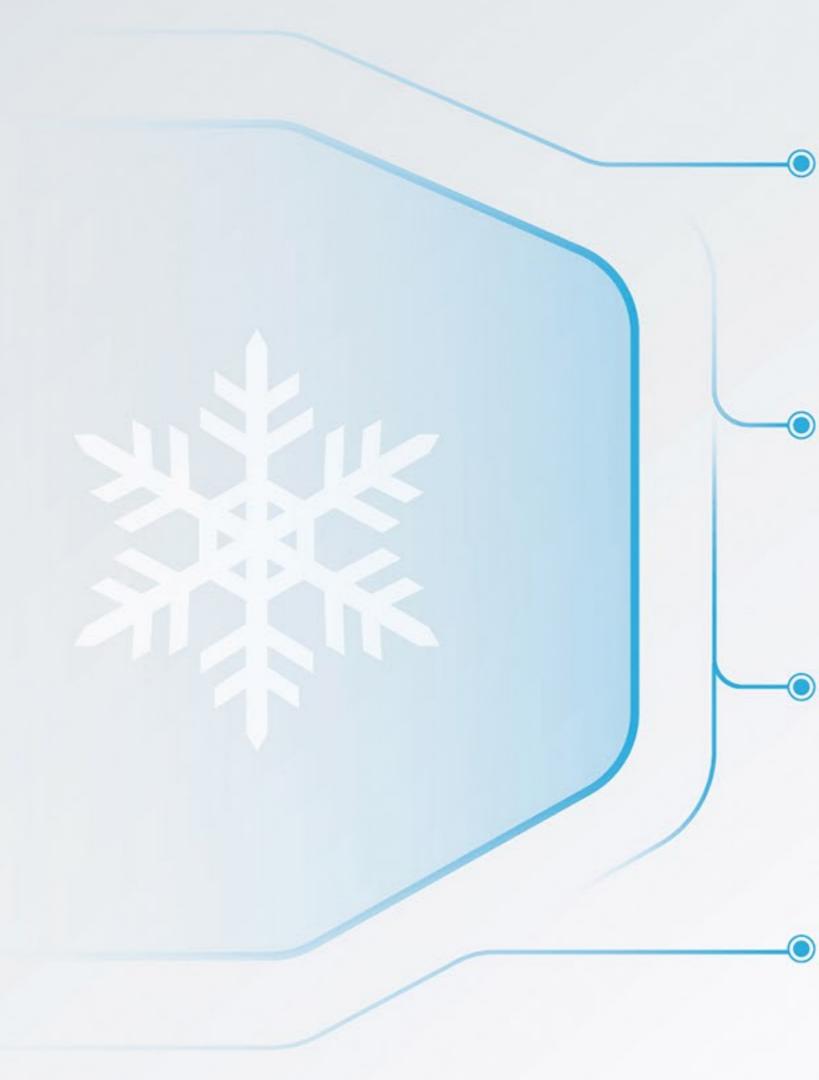
Real-time monitoring of process control points

Before the raw materials are put into use, they undergo more than 10 rounds of testing to ensure that the quality of the raw materials is stable and consistent. They are shipped after 42 process flows and are more durable than similar products.

CELL ADVANTAGES



Cell Advantages



Stacking Process - Battery Advantages

High Safety: In a fully charged state, the battery does not ignite or explode when shot or punctured, surpassing military standards.

Ultra-Long Life

Long Cycle Life: Using a special in-situ gel stacking process, the 0.3C charge /discharge cycle life is more than 15,000 cycles, and the 1C charge/discharge cycle life is more than 8,000 cycles.

High Discharge Rate, Large Capacity

Capable of sustaining 2C charge and discharge, with instantaneous discharge reaching 15C. Suitable for power use in various heavy engineering equipment.

Extreme Temperature Adaptability

Low-Temperature Battery: -35°C charge/discharge efficiency reaches 90%, and 60°C high-temperature discharge efficiency reaches 102%. Far exceeds the industry average low-temperature working limit of -20°C.

Stacking Process - Battery Advantages



Stacking Process



Higher space utilization, energy density can be increased by 5% compared to winding	Higher	Lower	There is a C angle, the larger the capacity, the lower the utilization rate
Uniform internal structure, relatively consistent reaction rate	More stable	Lower	The existence of a C angle leads to uneven internal reaction rates during charge and discharge
Multiple electrodes in parallel, low internal resistance! High current charging and discharging can be completed in a short time, and the battery rate performance is higher	Higher	Worse	During the charge and discharge process, the degradation rate of active materials at high temperature positions is accelerated, and other positions decay rapidly.
More consistent stress distribution, higher stability	Safer	Lower	Bending parts are prone to powder loss, burrs, pole piece expansion, diaphragm stretching and other problems.
Low internal resistance, low battery heat generation when used at high rates, which can improve the stability of the battery chemical system and extend the service life	Longer	Shorter	Later, it is easy to change, which in turn affects the cycle life of the battery.

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LONG CYCLE BATTERY

Long Cycle Battery



System

Adopts a lithium iron phosphate (LFP) system with excellent safety performance.



High Consistency

Fully automated production, highprecision production lines, and strict grouping parameters: Capacity, OCV (Open Circuit Voltage), IR (Internal Resistance).



Discharge

Supports 15C instantaneous discharge current.



Life

0.3C charge/discharge cycle life exceeds 15,000 cycles, reducing the cost of periodic use.



Energy

Energy density can reach ≥180Wh/kg.



Internal Resistance

Internal resistance ≤0.25mΩ, 30 % lower compared to wound batteries.



Application areas

Power battery system

Energy storage battery system

Core Application areas

Such as new energy pure electric

mining trucks, electric heavy trucks, etc.

Long cycle battery specification

Product model E	206Ah nergy storage	206Ah power Ei	230Ah nergy storage	230Ah power E	280Ah Energy storage	280Ah power	314Ah Energy storage	314Ah power
Standard charge/ discharge current	0.5C/0.5C	1C/1.5C	0.5C/0.5C	1C/1.5C	0.5C/0.5C	1C/1.5C	0.5C/0.5C	0.5C/1.5C
Maximum continuous charge/discharge current	1C/1C	1C/1C	1C/1C	1C/1C	1C/1C	1C/1C	1C/1C	1C/1C
Peak pulse charge/discharge current	3C/3C	3C/3C	3C/3C	3C/3C	3C/3C	3C/3C	3C/3C	3C/3C
Operating temperature	-20°C-65°C	-20°C-65°C	-20°C-65°C	-20°C-65°C	-20°C-65°C	-20°C-65°C	-20°C-65°C	-20°C-65°C
Energy density	170 (Wh/kg)	170 (Wh/kg)	180 (Wh/kg)	180 (Wh/kg)	170 (Wh/kg)	170 (Wh/kg)	180 (Wh/kg)	180 (Wh/kg)
Nominal voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Nominal internal resistance	<0.25m2	<0.25m2	<0.25m2	<0.25m2	<0.25m2	<0.25m2	<0.25m2	<0.25m2
Battery cell weight	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg	4.0±0.12kg
Battery cell size	204*173	*54mm	204*173*	54mm	204*173	*71mm	204*173	*71mm

Advantages of long cycle batteries - high safety - gunshot battery safety experiment



Experimental battery cell: LiFePO4-206Ah battery cell

LiFePO4 system, lamination process, high safety performance, long cycle life, high energy density, good low temperature performance



Gun introduction: Type 95 rifle/bullet: 5.8mm

The battery is fully charged and the shooting battery experiment is carried out at normal temperature and pressure.



The bullet penetrated the battery cell, and the battery began to smoke, but there was no fire or explosion. The voltage gradually dropped to 0V, and the internal structure of the battery and the connection of the poles were intact, with no obvious deformation.

Safety testing and product certifications













GB/T36276

IEC6261

UL 9540

UL1973

UN38.3

ROHS

IS16893Part2

IS16893Part3

GB/T38031

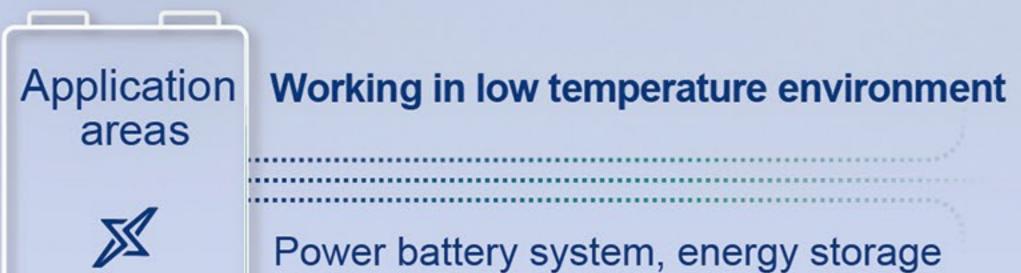
GB/T31484

GB/T31486



★ Products are constantly innovating and performance is continuously improving. These technical parameters are for reference only





battery system, etc.



-20°C、 -25°C、 -30°C、 -35°C

Other models can be configured on demand

Low-Temperature Battery





Low Temperature

The charge/discharge efficiency at -35°C can reach more than



High Consistency

Fully automated production, highprecision production lines, and strict grouping parameters: Capacity, OCV (Open Circuit Voltage), IR (Internal Resistance).



Operating Conditions

The battery operates in a wide temperature range, from -35°C to 60°C.



System

Adopts a lithium iron phosphate (LFP) system with excellent safety performance.



Energy

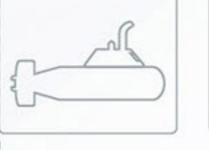
Energy density can reach ≥180Wh/kg.



Internal Resistance

Internal resistance ≤0.25mΩ, 30% lower compared to wound batteries.

Low-temperature battery application scenarios



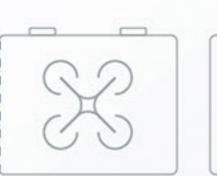




Submarines, ships, aircraft, etc.

Aerospace and military industry

High safety performance, large battery capacity, long cycle life, wide operating temperature range







High-tech equipment field

Mining equipment, marine vessels, etc.

Heavy engineering equipment field

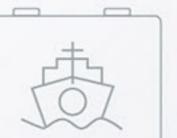






Rail transit field





Passenger cars, commercial vehicles, inland ships, subways, etc



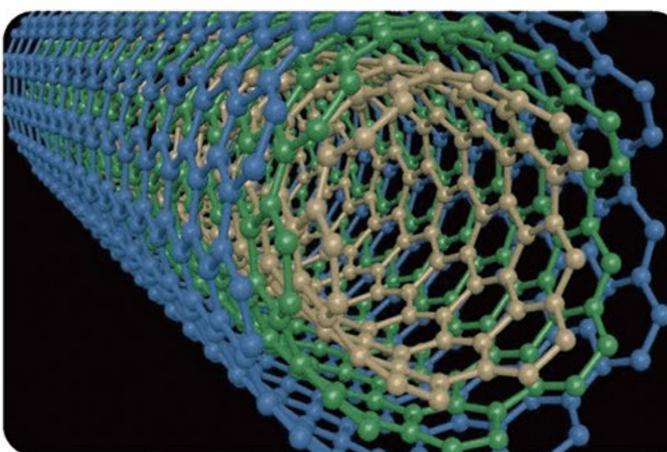


Low-temperature battery specifications



Low-temperature battery specifications					
Low-temperature models	-20°C	-25°C	-30°C	-35°C	
Low-temperature charge/discharge performance (1C)	97%	95%	95%	90%	
Standard charge and discharge rate	1C/1C	1C/1C	1C/1C	1C/1C	
Battery capacity	206Ah、230Ah、280Ah、314Ah				

XDLE Lithium Low-Temperature Cell Technology



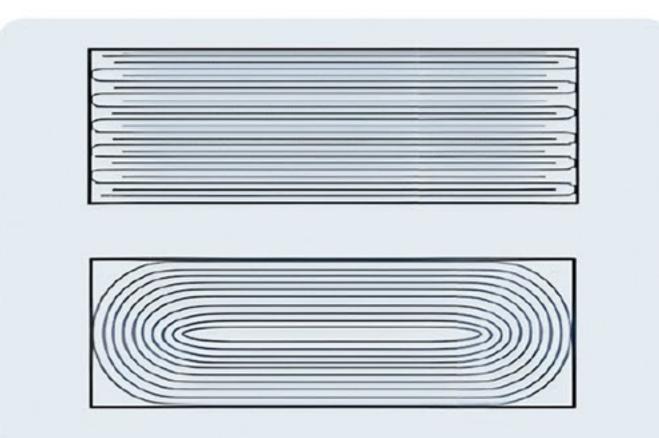
Through the compounding of carbon nanotubes and graphene, the battery impedance is greatly reduced and the rate performance is higher.



The patented in-situ gel electrolyte makes the battery more resistant to low temperatures.

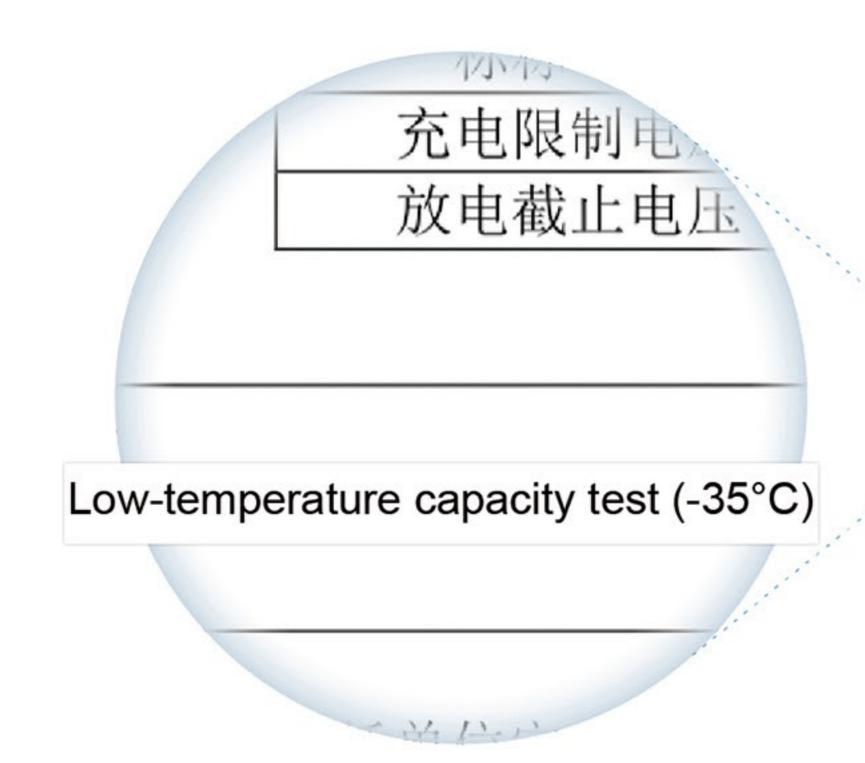


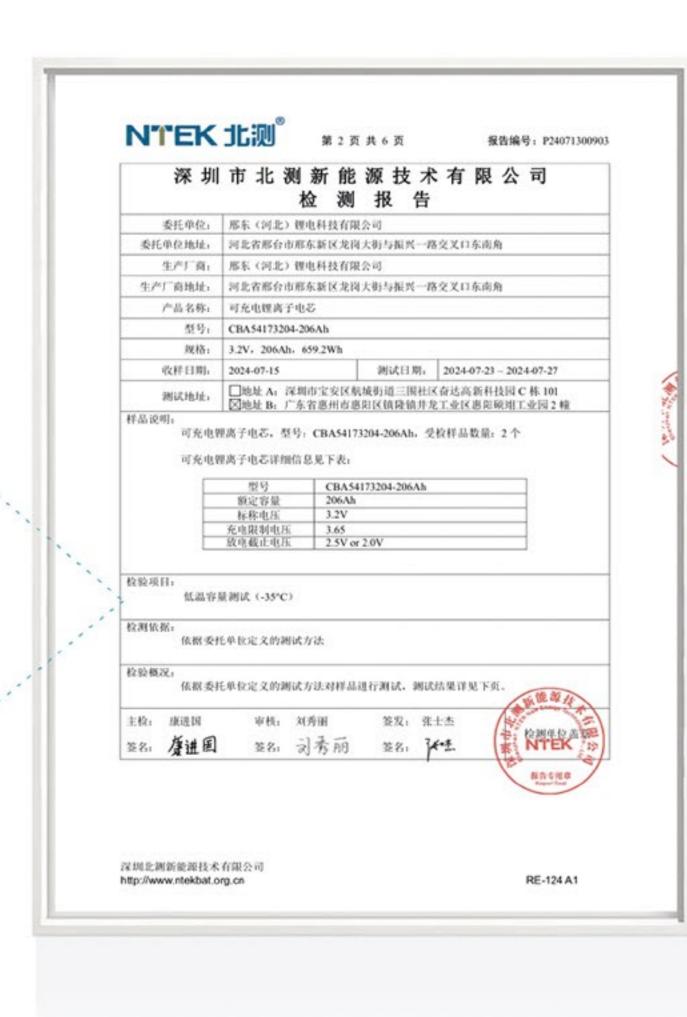
Using patented diaphragm coating technology, it effectively improves battery safety and cycle performance.



The stacking process has higher volume energy density, longer cycle life and higher safety.

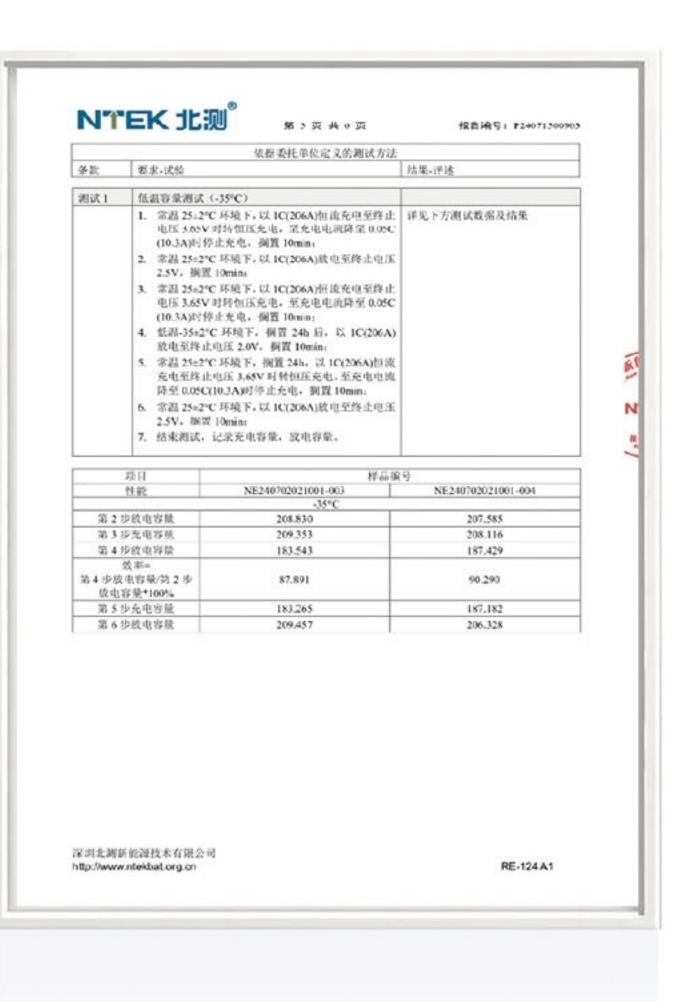
Low-temperature battery test report





Four core

multiple patented



Pioneer in mass production of solid-state batteries and low-temperature batteries

ALL-SOLID-STATE BATTERY



2020 Year

Start solid-state battery research and development

2023 Year 10 Month

Solid-state battery research and development has successfully achieved an electrolyte solidification rate of 100%, that is, liquid value (0wt%)

1

2024Year 3 Month

Realize the production of solid-state battery concept samples and

small samples

2024Year 7 Month

Realizing mass production of solid -state batteries

Introduction to Solid-State Battery



Battery parameters (currently in mass production)

System	LiFePO4 battery	Internal resistance	≤0.26mΩ	
Battery capacity	206Ah	Weight	4050g±50g	
Voltage	3.2V	Dimensions	204*173*54mm	

Battery Features

High safety, no liquid in the battery core, no risk of leakage. More stable, no liquid flow, no gasification expansion, can be used in various extreme environments. Wide temperature range, the battery is least affected by thermal expansion and contraction, and has stronger temperature adaptability.



POWER PRODUCTS

Mining Truck Diesel-to-Electric Series - 220T Electric Mining Truck - Three Electric Systems



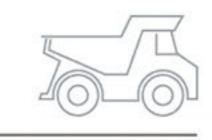
The world's first 220-ton mining dump truck pure electric transformation

Lithium iron phosphate battery Power battery

186t 186t

Vehicle weight Rated load capacity

Operational Advantages of Electric Mining Trucks



Lower energy costs.	Maintenance cost reduction
Electric power costs < Fuel costs	Electric vehicle maintenance < diesel vehicle maintenance
Stronger power output Motor>Engine	Higher work efficiency Intelligent + automated

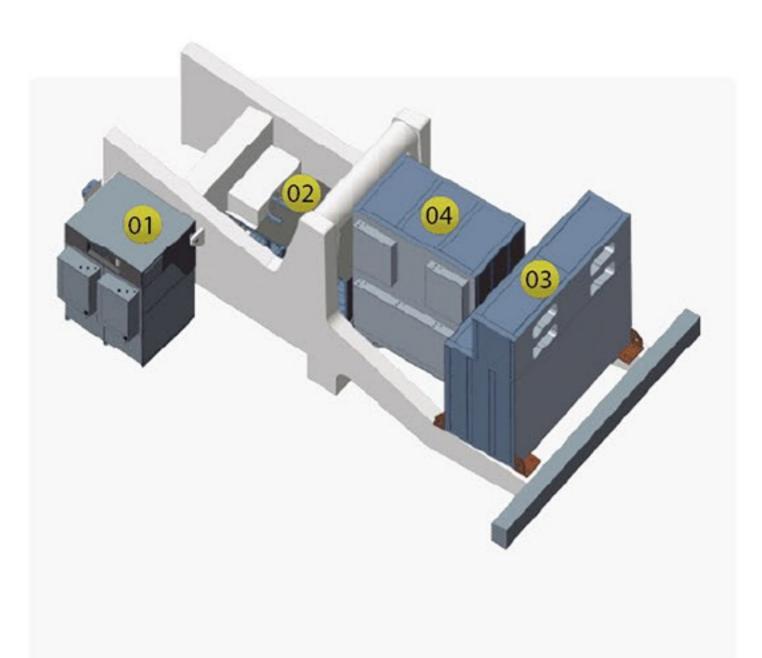
Environmental Advantages of Electric Mining Trucks

Helping achieve "carbon neutrality"

Zero tail gas emissions

Green mine construction

No pollution, low noise



XDLE Lithium Battery independently develops and produces products including power battery packs, electronic control systems, and AC motors.

- The power supply capacity of realizing fuel-to-electric power conversion is higher than the original diesel power.
- After the diesel-to-electric conversion, the safety performance of mining trucks has been improved, while the handling performance and driving habits have basically remained the same.
- Ensure that the vehicle can run for 8 hours on pure electric power after charging for 1 hour while the vehicle load remains unchanged
- The entire vehicle is supplied with green electricity, is environmentally friendly and energy-saving, and has zero carbon emissions.

Application areas:

Green mine construction, electrification of mining equipment, electric power for heavy engineering equipment, etc.

Mine Card Battery A Cabinet - LFP



Rated Capacity (kW	(h) 209.664
Rated Voltage (v)	748.8
Weight (kg)	1470±50
Protection Level	IP67
Operating Temperature Range	e (°C) -35~60
Dimensions (mm)	3642*1160*249
Cooling Method	Dual-channel liquid cooling

Mine Card Battery B Cabinet - LFP



Rated Capacity (kWh)	163.072
Rated Voltage (V)	582.4
Weight (kg)	1140±50
Protection Level	IP67
Operating Temperature Range (℃)	-35~60
Dimensions (mm)	2897*1160*249
Cooling Method	Dual-channel liquid cooling

Mine Card Battery C Cabinet - LFP



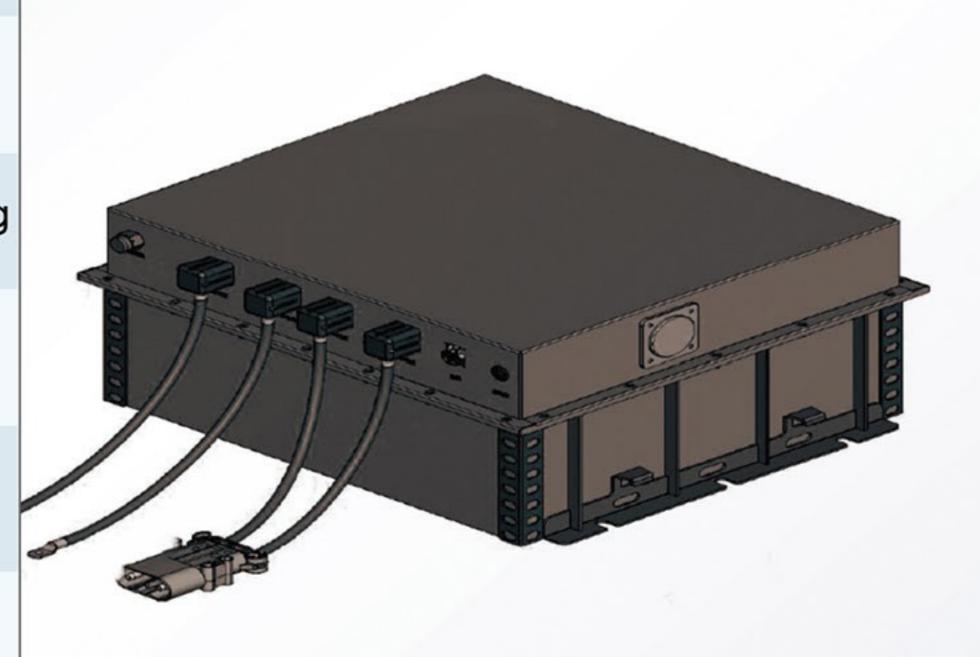
Rated Capacity (kWh)	93.184
Rated Voltage (V)	332.8
Weight (kg)	660±20
Protection Level	IP67
Operating Temperature Range (℃)	-35~60
Dimensions (mm)	1727*1160*249
Cooling Method	liquid cooling

POWER PRODUCTS

76.8V206Ah-Forklift Battery System

Product Parameters

206 ent (A)
d SOC ge 5%~95%
nd Natural cooling
el IP65
-40~60°C ange
m) 690*600*397



Heavy truck standard C Cabinet

Product Parameters

Battery type	LFP	Rated charge/ discharge current (A)	206
Battery system grouping	1P48S	Recommended SOC operating range	5%~95%
Method Rated voltage (V)	153.6	Cooling method	Natural cooling
Rated power(kwh)	31.64	Protection level	IP68
Weight (kg)	215±6.5	Operating temperature range	-40~60
Voltage range(v)	120~175.2	Dimensions(mm)	1060*630*245



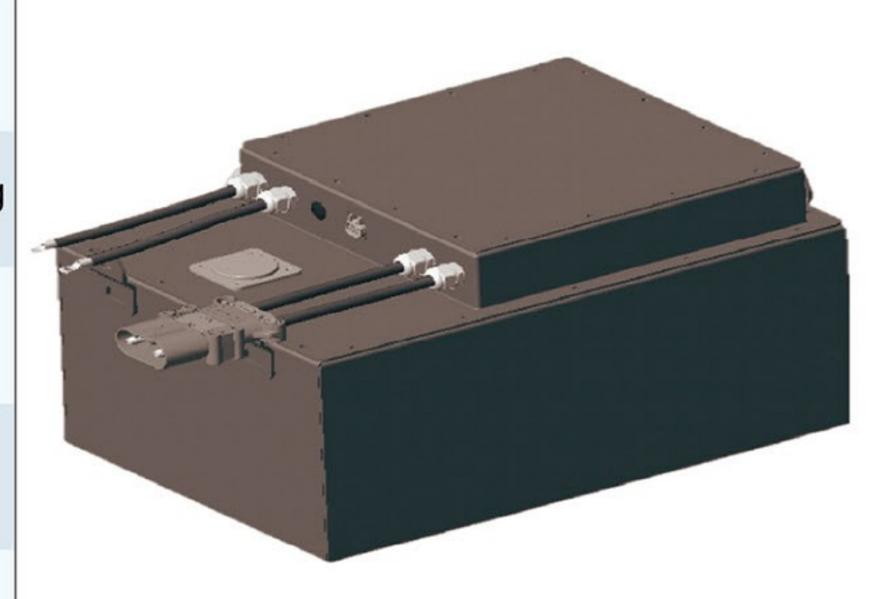
Application areas:

Electrification of engineering vehicles/heavy equipment, passenger cars, commercialvehicles, low-speed special vehicles, inland ships, etc.

51.2V206Ah-Tractor Battery System

Product Parameters

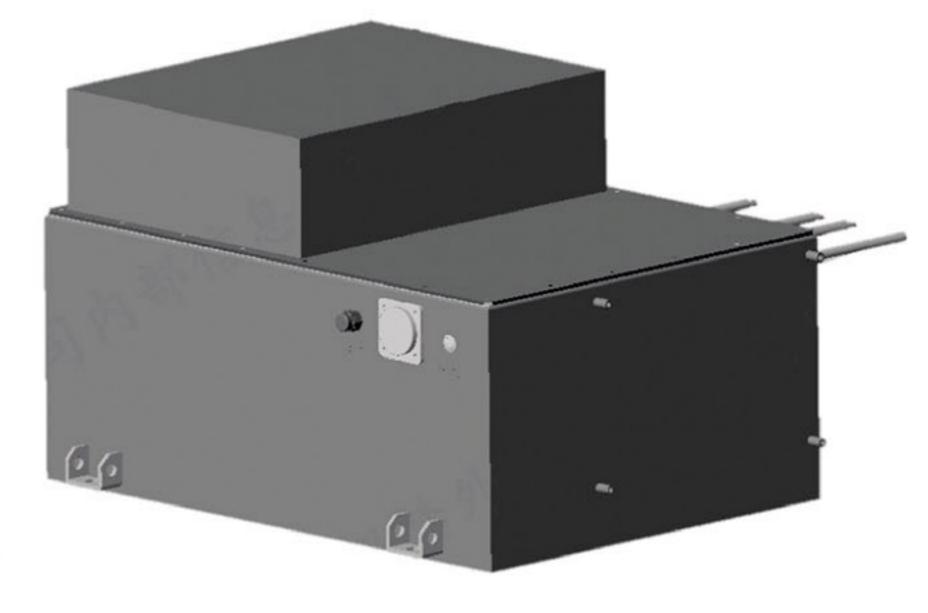
7			
Battery type	LFP	Rated charge/ discharge current (A)	206
Battery system grouping	1P16S	Recommended SOC operating range	5%~95%
Method Rated voltage (V)	51.2	Cooling method	Natural cooling
Rated power(kwh)	10.5	Protection level	IP65
Weight (kg)	102±4	Operating temperature range	-35~60°C
Voltage range(v)	40~58.4	Dimensions(mm)	567*396*338



153.6V206Ah-Loader Battery

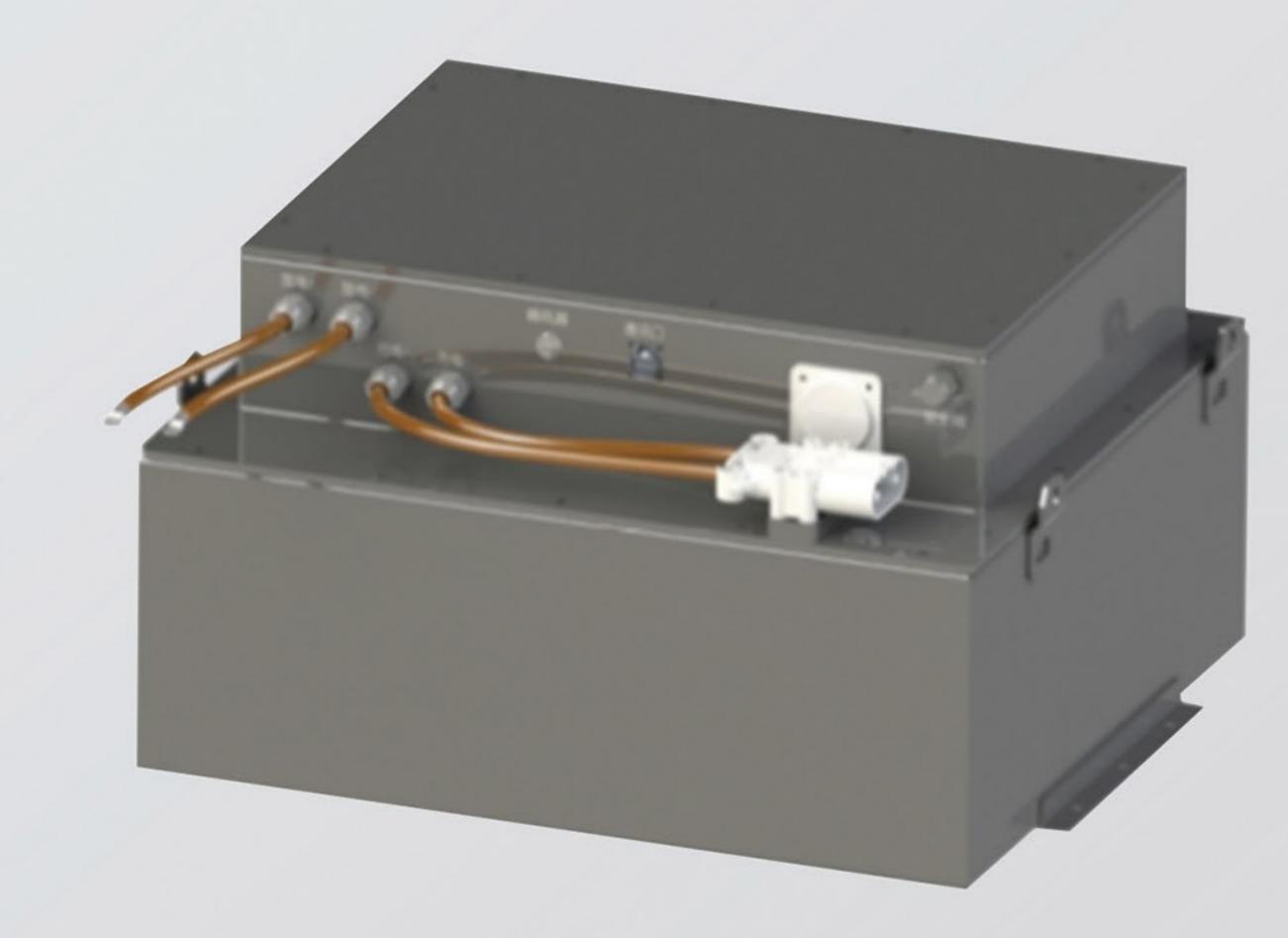
Product Parameters

Battery type	LFP	Rated charge/ discharge current (A)	206
Battery system grouping	1P48S	Recommended SOC operating range	5%~95%
Method Rated voltage (V)	153.6	Cooling method	Natural cooling
Rated power(kwh)	31.6	Protection level	IP65
Weight (kg)	272±12	Operating temperature range	-35~60
Voltage range(v)	120~175.2	Dimensions(mm)	775*597*487



Forklift battery system

Applied to various electric forklifts





IP65 protection level

High level of waterproof and dustproof, can operate in various harsh working conditions.



Separate fire protection

Single large capacity battery cell, cluster-level energy balance management.

Parameters

Battery type	LFP	Maximum continuous discharge current (A)	206
Grouping method	1P24S	Protection level	IP65
Rated voltage (V)	76.8	Operating temperature range (°ℂ)	-35~60
Rated capacity (Ah)	206	Voltage range (V)	60~87.6
Rated power (kWh)	15.8	Cooling method	Natural cooling
Weight (kg)	170±10	Recommended SOC operating range	5%~95%
Maximum continuous charging current(A)	206	Dimensions (mm)	690*600*397

220T mining dump truck battery system

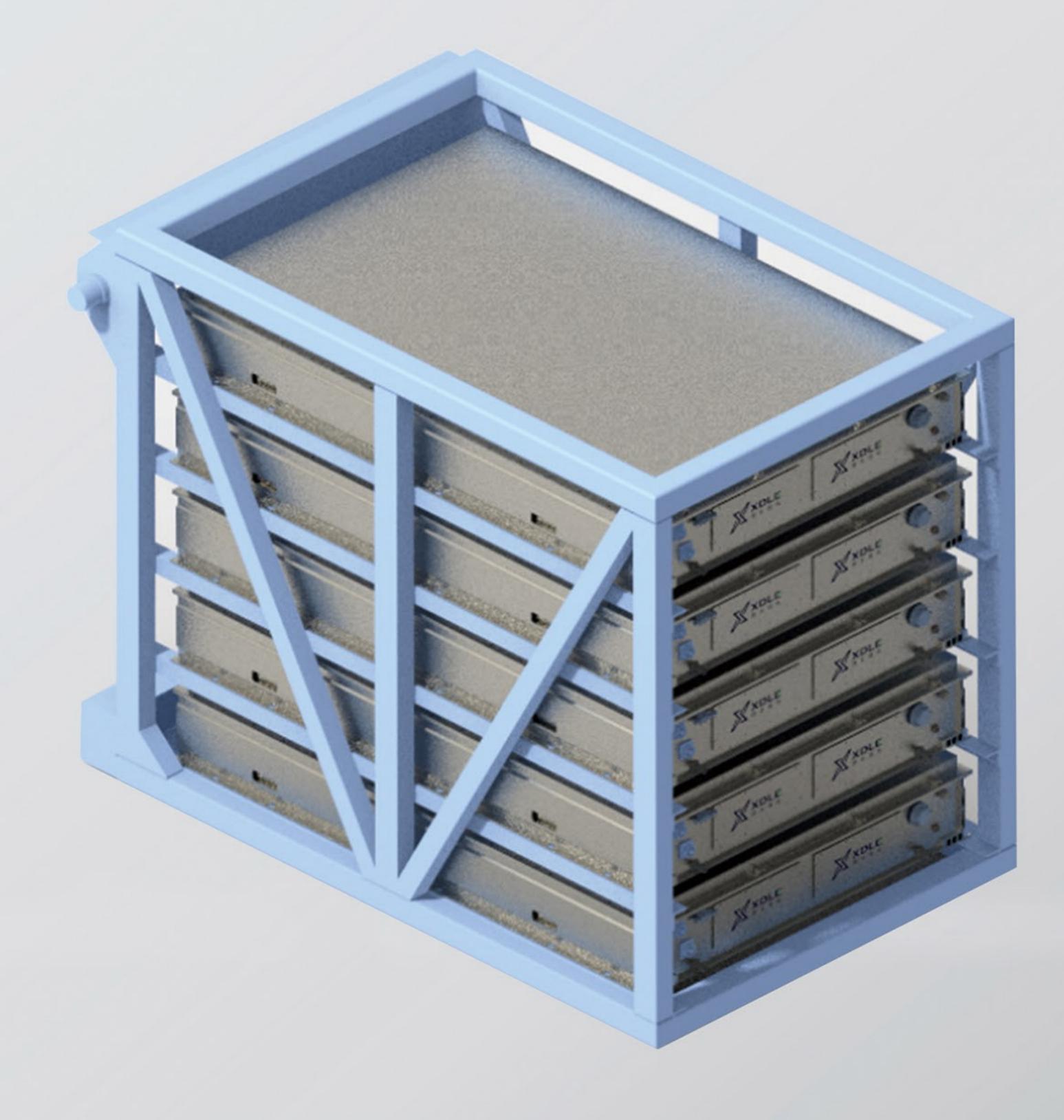
Applied to mining trucks



Battery type	LFP	LFP	
Grouping method	2P 288S (2 battery clusters)	4P 288S (4 battery clusters)	
Rated voltage (V)	921.6	921.6	
Rated capacity (Ah)	206*2	206*4	
Rated power (kWh)	379.699	759.398	
Weight (kg)	3320±100KG	7660±220KG	
Voltage range (V)	777.6~1036.8	777.6~1036.8	
Maximum continuous discharge current (A)	206*2	206*4	
Maximum continuous charge current (A)	206*2	206*4	
Recommended SOC operating range	5%-95%		
Cooling method	Liquid cooling		
Protection level	IP67		
Cycle life	1C charge and discharge>8000 times		
Operating temperature range (°C)	-35~60		

Mining Truck diesel to Electric Series

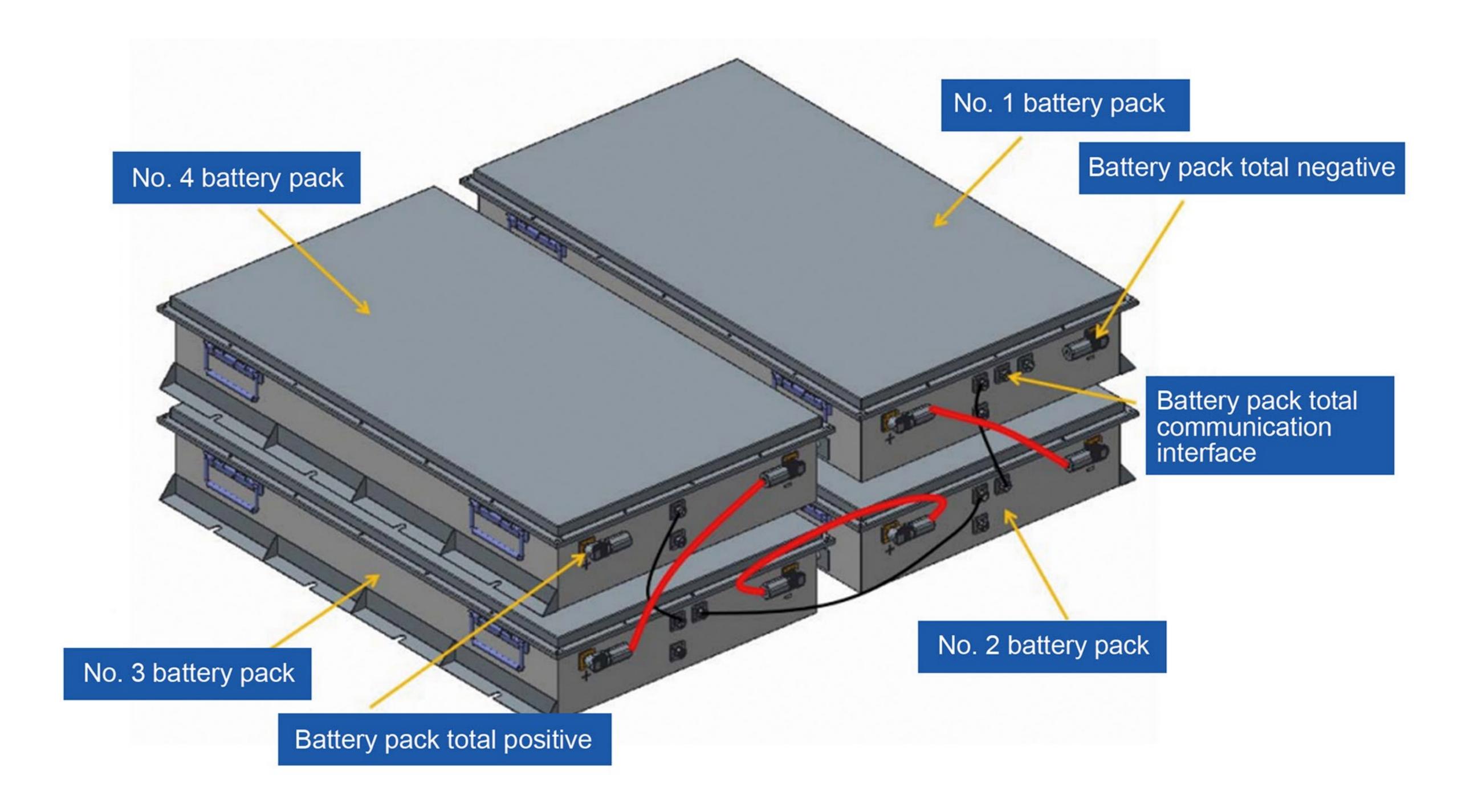
154T Mining Truck diesel to electricity - Battery System



Parameters

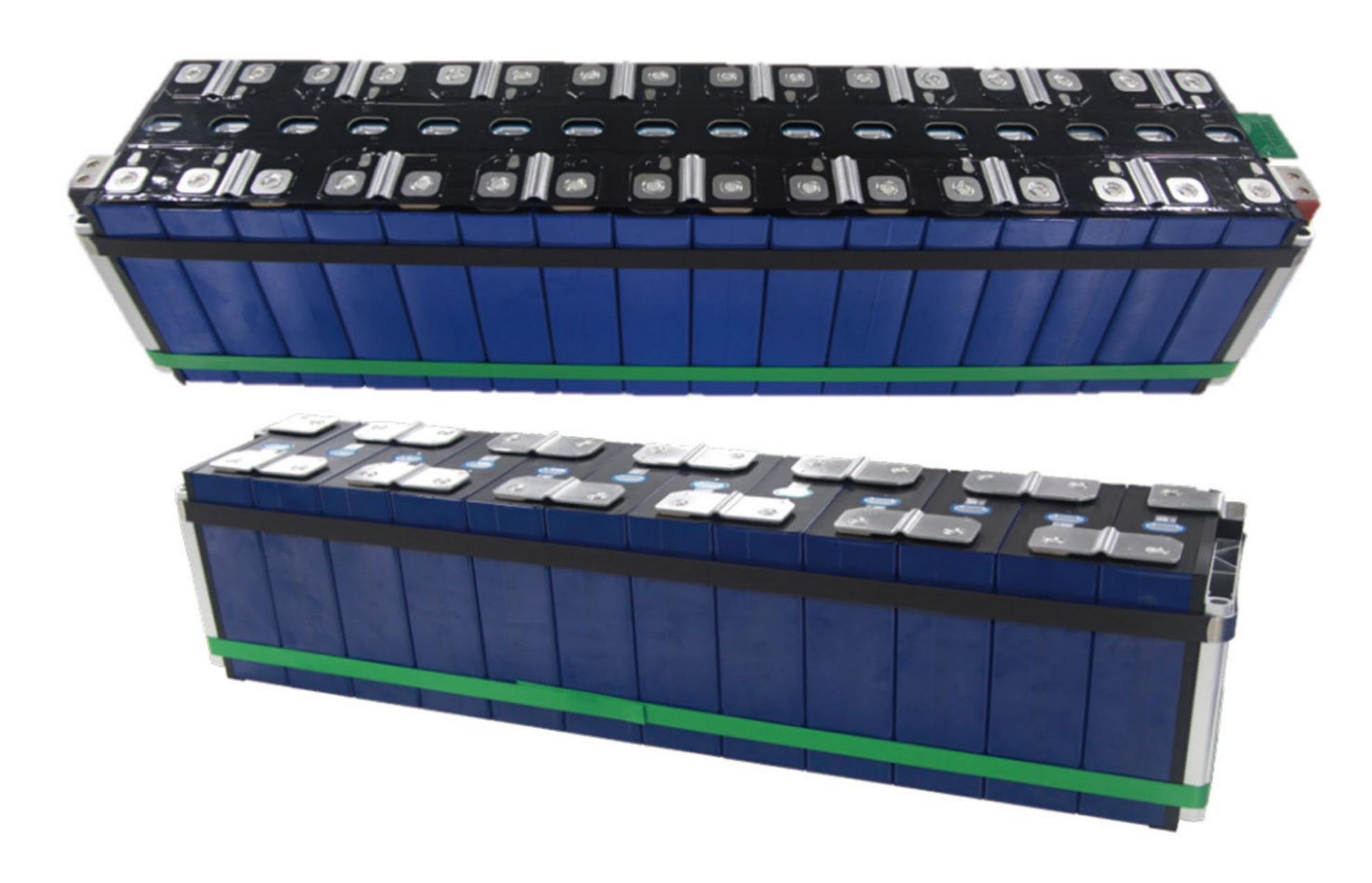
Name	Parameter
Battery cell	3.2V280Ah
Grouping method	1P13S(41.6V280Ah)
High-voltage battery cluster	1P416S(1331.2V280Ah)
High-voltage battery stack	4P416S(1331.2V280Ah*4)
Low-voltage battery cluster	1P208S (665.6V280Ah)
Low-voltage battery stack	3P208S(665.6V280Ah*3)
System power	1490.944kWh
Operating temperature range	-35~6°C

LFP-D Series-Military AGV Battery System



Name	Military AGV Battery System
Battery Cell	3.2V206Ah
PACK Cabinet	1P42S(134.4V206Ah)
Battery System	1P168S(537.6V206Ah)
System Power	110.74kWh
Operating Temperature range	-35~60°C

LFP-M Series Battery Standard Module



Product Advantages

Intelligent lightweight

Intelligent BMS management system, real-time sensing of battery cell working status, and environmentally lightweight aluminum can reduce the overall weight of the battery system by 20%

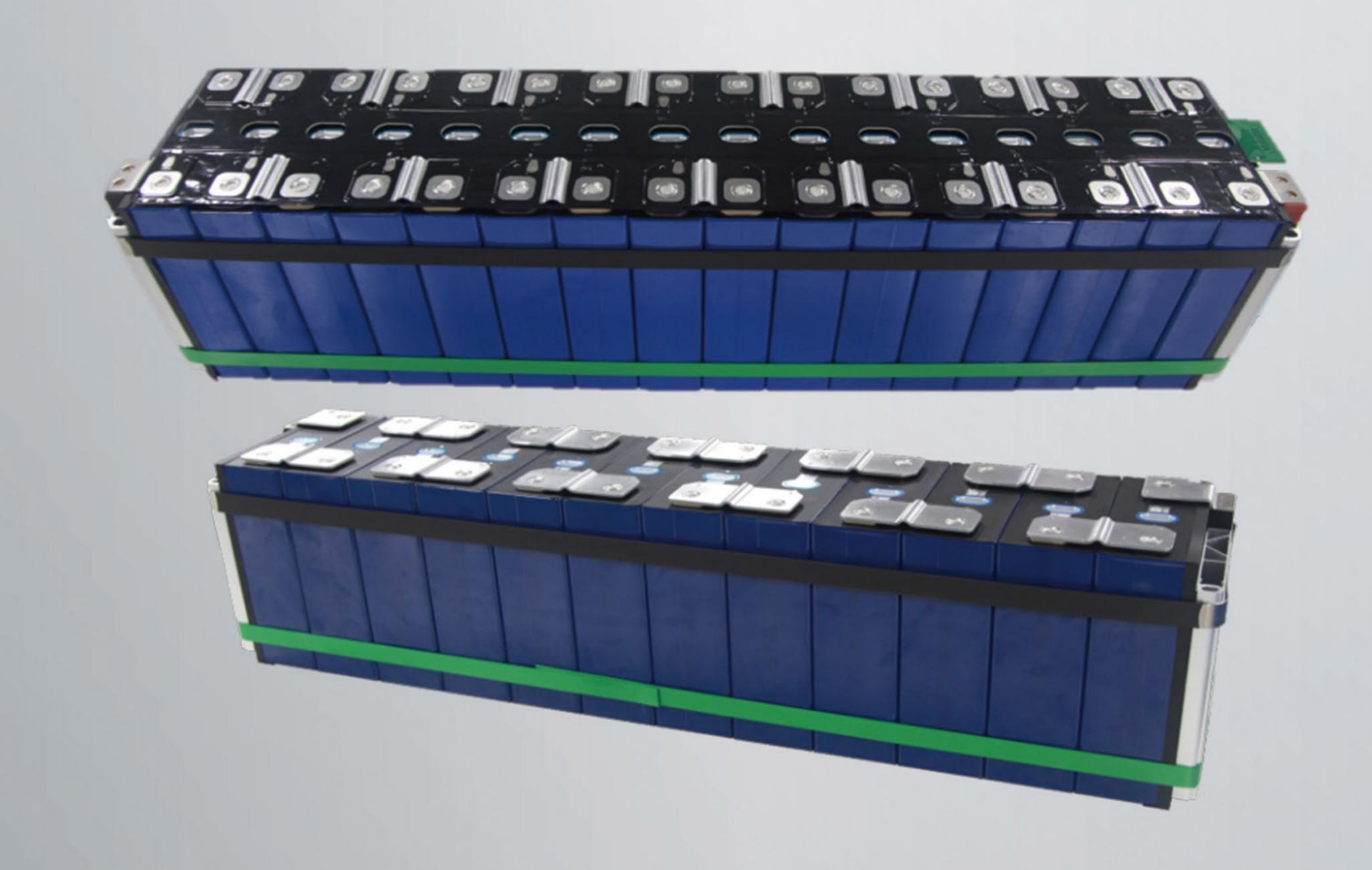
Higher energy saving

Design low temperature/high temperature/normal temperature battery systems to match the whole vehicle according to the global climate. It can increase the profit margin and flexibility of the whole vehicle of the OEM by 30%. Product standardization, modular design, cost reduction and efficiency improvement of operation.

Excellent battery cell

Adopting iron phosphate system battery, excellent safety performance, energy density ≥180Wh/kg, wide operating temperature range, simple PACK process, independent fire protection system, precise prevention and control, smoke, temperature multi-sensing.

LFP-M Series Battery Standard Module



Product Parameters

	124	
Battery type	LFP	LFP
Grouping method	1P16S	1P13S
Rated voltage (V)	51.2	41.6
Rated capacity (Ah)	206	280
Module power (Wh)	10547.2	11648
Voltage range (V)	40~58.4	32.5~47.45
Maximum continuous discharge current (A)	206	140
Maximum continuous charge current (A)	206	140
Module weight (kg)	66±2	72
Module size (mm)	906*176*216	745*176*216
Operating temperature range (°ℂ)	-35~60	-35~60

Wall-Mounted Energy Storage System

Home Energy Storage Series



Product Parameters

Battery type	LFP	Rate power (kW)	5
Rated capacity (kWh)	10.5	Rated charge/ discharge current (A)	103
Grouping method	1P16S	Operating temperature range (°C)	-35~60
Nominal voltage (V)	51.2	Weight (kg)	103±5
Discharge voltage cut-off (V)	45	Dimensions (mm)	800*680*1
Charge voltage cut-off (V)	58.4		

Product Advantages

Higher energy saving

Advanced battery technology and intelligent control system achieve efficient energy storage and release, improve energy utilization, and save energy efficiently

Versatility

It has multiple functions such as power conversion and intelligent scheduling, which can adapt to the energy management needs in different scenarios.

Higher Safety

Using XDLE lithium battery high safety LFP square battery cells, the battery cells will not catch fire or explode in needle puncture and gunshot tests when fully charged

Renewable Energy Integration

Supports connection with renewable energy equipment such as solar photovoltaic systems to achieve energy complementarity and sharing and promote green energy utilization

Scalable

Modular design, the number of modules can be increased to achieve system capacity expansion according to actual power demand

Intelligent monitoring

Real-time monitoring of energy storage status, battery health and energy flow, providing a user-ring friendly operation interface and remote monitoring function

Longer lifespan

r design, the number Service life of >10 years ales can be increased eye system capacity

Stable and reliable power supply

The capacity can be expanded smoothly to meet the needs of families at different stages

Home Energy Storage Series

Product Parameters

Battery type	LFP	Rated power (kW)	5
Rated capacity (kWh)	21	Rated charge and discharge current (A)	52
Grouping method	2P16S	Operating temperature range (℃)	-35~60
Nominal voltage (V)	51.2	Weight (kg)	249±5
Discharge voltage cut-off (V)	40	Dimensions (mm)	760*263*1636
Charge voltage cutoff (V)	58.4		



Product Advantages

Higher energy saving

Advanced battery technology and intelligent control system achieve efficient energy storage and release, improve energy utilization, and save energy efficiently

Higher energy saving

Small footprint, flexible installation, modular expansion according to user needs, easy upgrade and maintenance

Higher energy saving

Multiple safety protection mechanisms, including overcharge protection, over-discharge protection, short circuit protection, etc., ensure safe and reliable operation of the equipment

Versatility

It has multiple functions such as power conversion and intelligent scheduling, which can adapt to the energy management needs in different scenarios

Renewable Energy Integration

Supports connection with renewable energy equipment such as solar photovoltaic systems to achieve energy complementarity and sharing and promote green energy utilization

Intelligent monitoring

Real-time monitoring of enegy storage status, battery health and energy flow, providing a user-friendly operation interface and remote monitoring function

Portable Power Bank

Home Energy Storage Series



Product Parameters

Battery type	LFP	Rated power (kW)	2
Rated capacity (kWh)	5.27	Rated charge and discharge current (A)	78
Grouping method	1P8S	Operating temperature range (°C)	-35~60
Nominal voltage (V)	25.6	Weight (kg)	48±5
Discharge voltage cut-off (V)	20	Dimensions (mm)	500*200*400
Charge voltage cutoff (V)	29.2	Cell	3.2V 206Ah

Liquid-cooling energy storage battery pack

C&I ESS





String design

Charging and discharging clusters arein dependent of each other, good system consistency



High efficiency and energy saving

Safe and reliable, large heat carrying capacity, low thermal resistance, high heat ex change efficiency



Separate fire protection

PACK-level independent fire protection, safer system operation

Parameters

Name	166.4V280Ah liquid cooling battery pack	Rated power (kW)	140
Battery Type	Lithium iron phosphate battery	ProtectionLevel	IP67
Group ing method	1P52S	Operating temperature range (°C)	-35~60
Rated Voltage (V)	166.4	Voltage range	130~189.8
Rated Capacity(kWh)	46.592	Cooling Method	Liquid cooling
Weight (kg)	320±10	Dimensions (mm)	1110*810*246

Air-cooling energy storage battery pack

C&I ESS





Spatial efficiency

Adoption of compact design and effective utilization of space. The air-cooled system is more compact, saves lay out space, and is easy to install and maintain.



Safety

Equipped with temperature sensors and safety monitoring system, it is able to monitor the battery temperature in real time and automatically control the operation of the system to maintain the appropriate temperature range and improve the safety performance of the system.

Name	51.2V 280Ah Air-cooling battery pack	Rated power (kW)	140
Battery Type	Lithium iron phosphate battery	Rated charge and discharge current (A)	IP20
Grouping method	1P16S	Operating temperature range (°C)	-35~60
Rated Voltage (V)	51.2	Cooling Method	Air cooling
Rated Capacity (kWh)	14.336	Recommended SOC operating range	5%~95%
Weight (kg)	103±10	Dimensions (mm)	493*746*222

C&I ESS Container with Liquid cooling

100kW232kWh



Parameters

Name	100kW 232kWh C&I Energy Storage Container	Voltage Range(V)	650~949
Battery Type	Lithium Iron phosphate Battery	AC side output voltage(V)	400 (-15%~15%)
Grouping method	1P260S	Rated charge/discharge current (A)	140
Rated Voltage (V)	832	Cooling Method	Liquid cooling
Rated Capacity (Ah)	280	IP Level	IP55
Total Power(kWh)	232	Dimension (mm)	1400*1400*2100
Weight (T)	2.6±0.1	Operating temperature range(°C)	-35~60

C&I ESS Container with Air cooling

100kW215kWh



Name	100kW215kWh C&I Energy Storage Container	Voltage Range	600~876
Battery Type	Lithium Iron phosphate Battery	AC side output voltage(V)	400 (-15%~15%)
Grouping method	1P240S	Rated charge/discharge current (A)	140
Rated Voltage (V)	768	Cooling Method	Air coolinmg
Rated Capacity (Ah)	280	IP Level	IP55
Total Power(kWh)	215	Dimension (mm)	1500*1121*2200
Weight (T)	2.7±0.1	Operating temperature range(°C)	-35~60

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Grid-Tied & Off-Grid Solar-Diesel Hybrid System

Commercial & Industrial Energy Storage System



Parameters

Name	50kW143kWh Grid-Connected PV Fuel Storage System	Voltage range (V)	400-584
Battery Type	Lithium iron phosphate battery	Hybrid inverter power(kW)	50
Grouping method	1P160S	AC side output voltage(V)	400 (-15%~15%)
Rated Voltage (V)	512	Cooling method	Liquid cooling
Total power (kWh)	143.36	Dimensions (mm)	1409*1278*1700
Weight (T)	1.7 ± 0.1	Operating temperature range(°C)	-35~60

DC Side Liquid Cooled Energy Storage Container

Grid Side Energy Storage System





Spatial efficiency

Compact mechanized design reduces space waste and improves unit space utilization efficiency



Safe

Highly integrated system, using integrated design, integrating local controller, HVAC and fire protection system, making installation and transportation convenient.

Name	5MWh liquid-cooled DC side energy storage system	System power	5015.96kWh
Battery Type	Lithium iron phosphate battery	Cooling method	Liquid cooling
Cell	3.2V314Ah	Adaptation	Photovoltaic power storage wind power storage, grid-side energy storage
PACK	1P104S/1P52S	Operating temperature range (°C)	-35~60
Battery Cluster	1P416S	IP Level	IP55
Grouping method	12P416S		

ESS-LFP-Air-cooled energy storage system

0.5MW 1.075MWh



Parameters

Name	0.5MW 1.075MWh-10-foot Energy Storage Container	Voltage Range(V)	600~875
Battery Type	Lithium Iron phosphate Battery	AC output voltage(V)	400V
Grouping method	5P240S	Rated charge/discharge current (A)	140
Rated Voltage (V)	768	Cooling Method	Air conditioning/ forced air cooling
Rated Capacity (Ah)	280	IP Level	IP55
Total Power(kWh)	1075	Dimension (mm)	3048*2600*3200mm
Weight (T)	10±0.5	Operating temperature range(°C)	-35~60

ESS-LFP-G Industrial and Commercial Energy Storage Series

1MW 2.15MWh

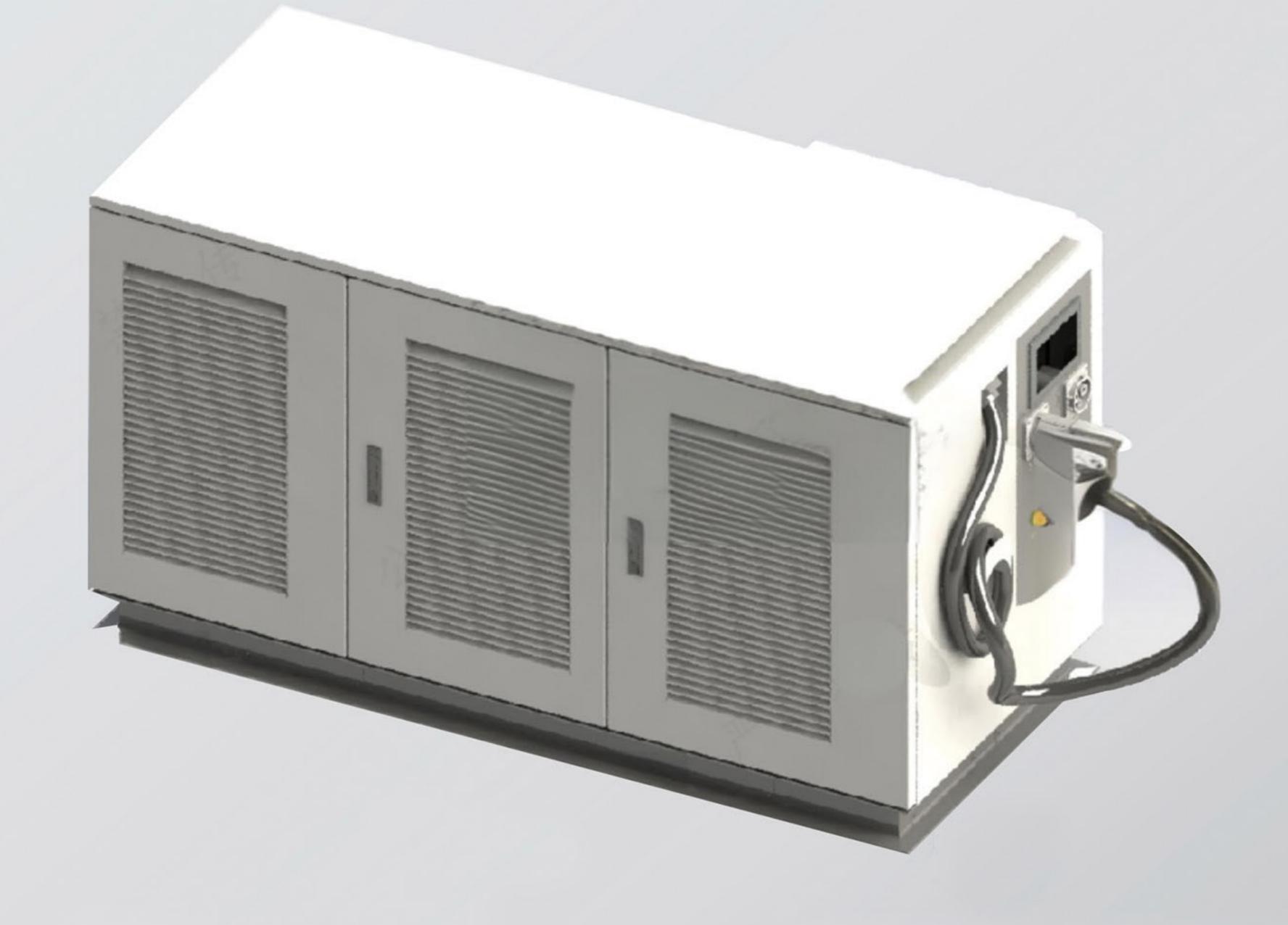


Name	1MW/2.15MWh Industrial Commercial Energy Storage	Cooling method	Liquid cooling
Battery Type	Lithium Iron phosphate Battery	Voltage platform	AC380
PACK	1P16S(51.2V280Ah)	Access method	Three-phase three-wire (A/B/C)
Battery cluster	1P240S(768V280Ah)	Applicable scenarios	Peak shaving, demand response, backup power, photovoltaic storage
Battery stack	5P240S*2/(768V280Ah*5)*2	Operating temperature range(°C)	-35~60
System power	2150.4kWh		
PCS power	500kW*2		

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ESS-LFP-60kW63kWh Vehicle Charging Station

For roadside assistance for electric vehicles.



Parameters

Charging power	60kW	System energy replenishment	National standard DC fast charging
Input Voltage Range	200V-1000V	Energy replenishment current	<100A
Output current	200A	Household standby inverter output	Three-phase four-wire, AC380V/30KW
Communication interface	CAN, RS485, Ethernet, etc.	Fault protection and safety	Over-temperature protection,
Interface type	CHAdeMO, CCS, GB/T, etc.	functions	over-voltage protection, over-current protection, reliable grounding protection, etc.
HMI	7-inch touch screen	Overall weight	880Kg±10
Charging method	Stand alone/Internet/Card Swipe	Range of working temperature	-10℃ ~ 60℃
Charging gun	National Standard	Operating humidity range	5%RH ~ 95%RH
Gun line length	7m	Dimensions (w x h x d)	814×1040×1860mm

ESS-LFP-G Industrial and Commercial Storage Series

Industrial and Commercial 1MW/2.32MWh





Efficient transformation

Maximum efficiency solution with, intelligent air cooling, 45°Coperation temperature with out derating, THD<2%@ at rated power.



Safe and reliable

High protection level (IP67) Z stacking type cell help to meet long life design,RACK-level battery management,reducing the number of batteries in series and parallel.

Battery Type	Lithium Iron Phosphate Battery	Continuous charge current	3768A
Grouping	24P240S	Recommended SOC operating range	5%-95%
Rated voltage	768V	Cooling method	Air Cooling
Rated capacity	7536kWh	Protection	IP54
Total energy	5787.6V	Container dimensions	12192*2438*2591mm
Voltage range	600-876A	Operating temperature range (°C)	Charging:0~55 Discharging:-20~60
Continuous Discharge Current	6000A		

SERVICE SUPPORT



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