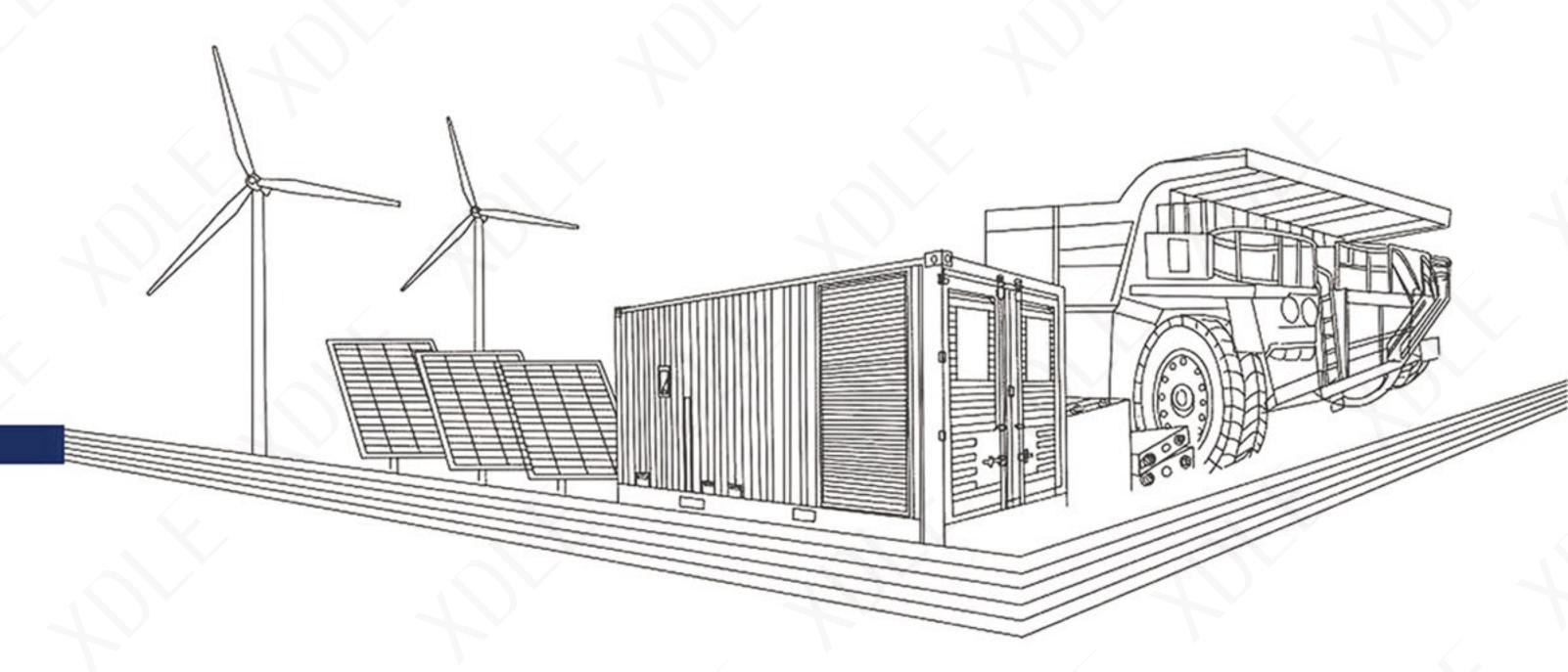


Xingdong Lithium Battery Technology Co., Ltd.

www.xdlebattery.com



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

Xingdong Lithium Battery Technology Co.,Ltd.

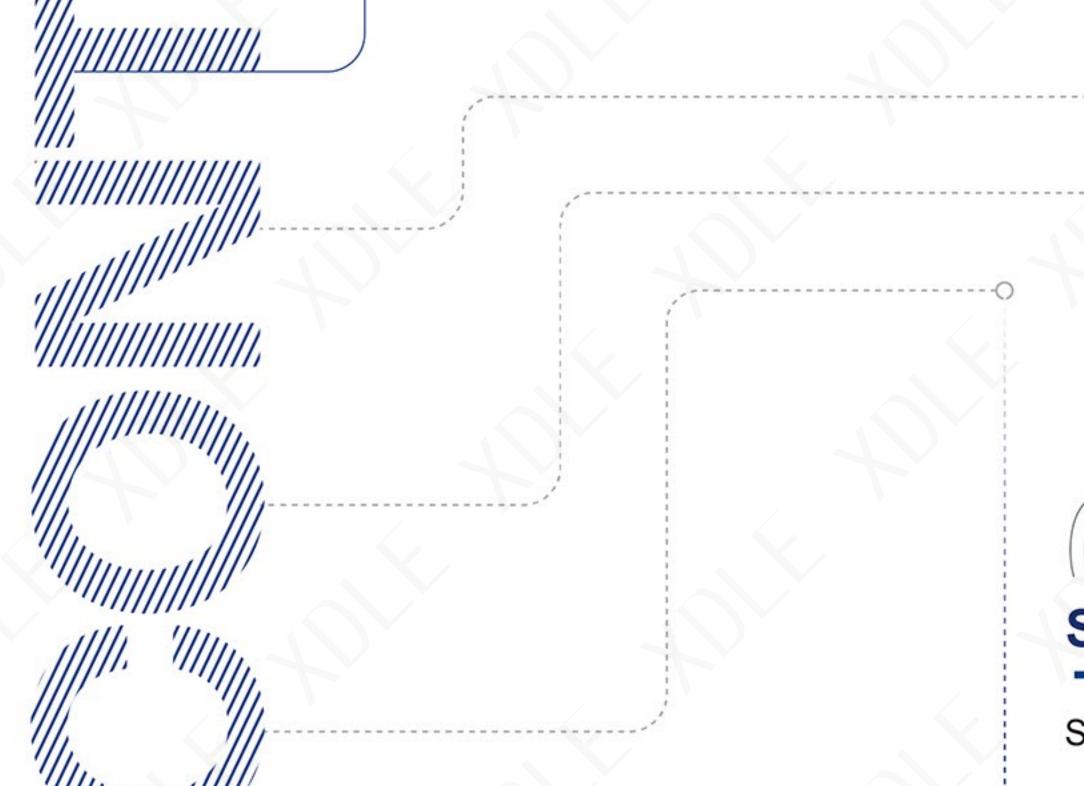




Product System

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
Low-temperature battery · · 16	Forklift / Tractor · · · · · · 24	Grid side energy storage ·· 3
All-solid-state battery · · · · 20	TOTRINE / Tractor	Ond side chergy storage of







Smart Factory

Smart manufacturing · · · · · 4

Quality benchmark · · · · · · 10



Service Support

Marketing services · · · · · · 8

Global locations · · · · · · · 10





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

Solid-state batteries

High-end military grade safty



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 battery

Low-temperature resistance Large power battery system

Meets the power needs of large-heavy construction machinery electrification and low-temperature areas.

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



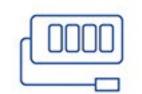
Industrial and commercial energy storage cabinets



Household energy storage



Portable power supply



Mobile charging station

Xingdong Lithium Battery Technology Co., Ltd.

Pioneer in mass production of solid-state

batteries and low-temperature batteries

We are a lithium-ion battery enterprise with a full industrial chain, with core technologies in battery cell development and system integration and professional testing capabilities, focusing on the research and development and manufacturing of high-safety, low-temperature-resistant solid-state lithium batteries, semi-solid-state lithium batteries, and high-performance large-power battery systems.

Our company is committed to providing high-quality lithium battery products that meet the highest safety standards, offer an extended lifespan, are capable of withstanding low temperatures, and are manufactured to exacting specifications. We combine technological innovation with advanced production technology and rigorous quality control to deliver tailored solutions and products for high-safety, low-temperature-resistant lithium battery systems to our global customer base.

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



20000 m + R&D center area 20,000 m²+



200 +
More than 200 process

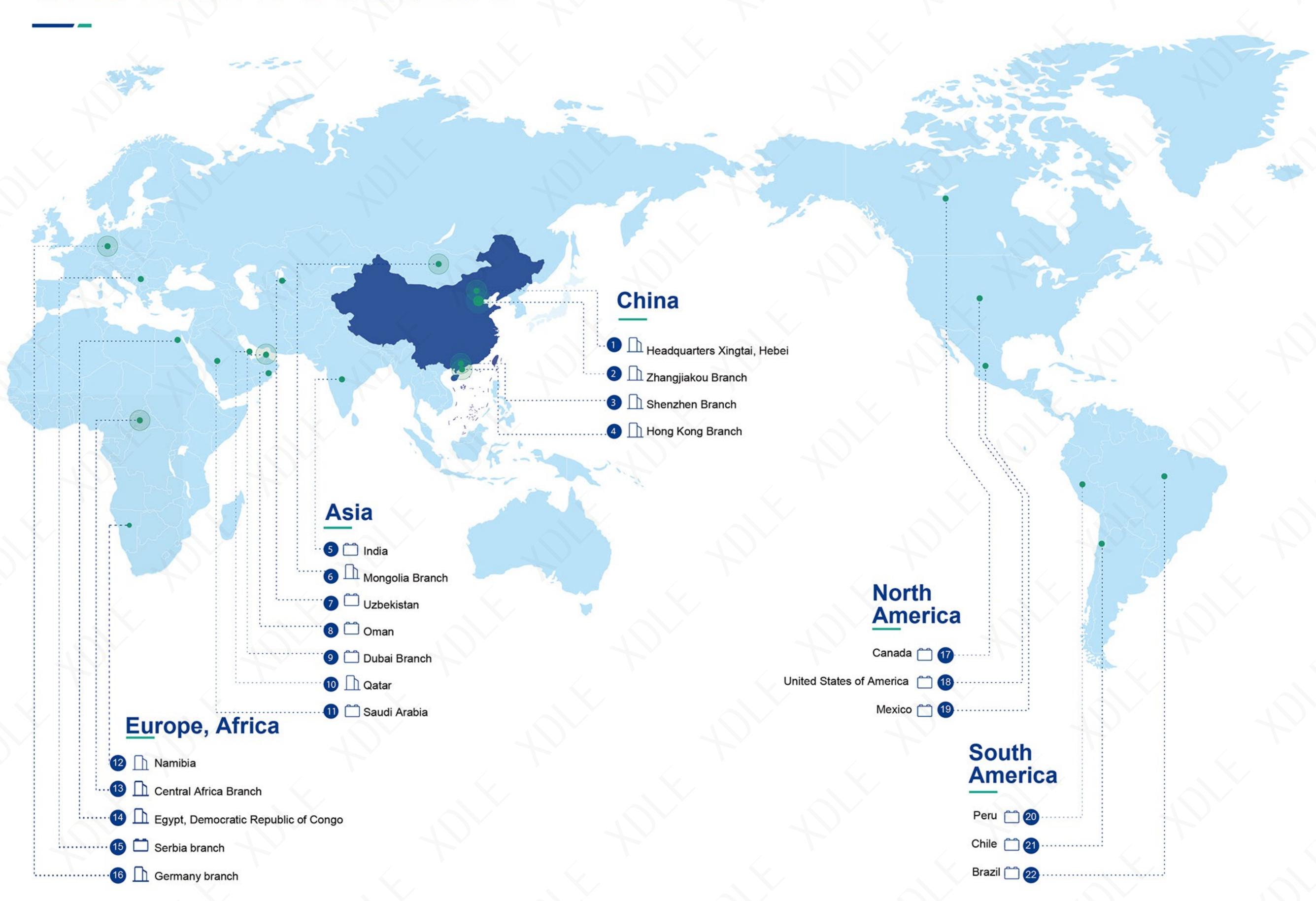
technologies



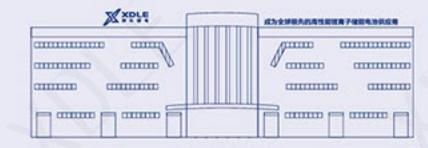
100 + 100+ patents, including 3

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

GLOBAL BUSINESS



Headquarters: Xingtai, Hebei 📈

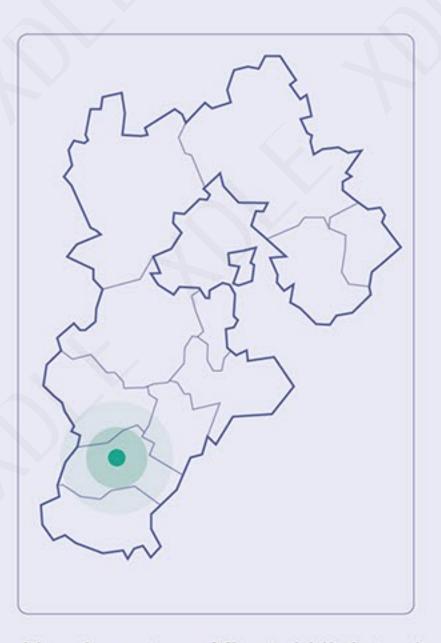


Eight branches

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.



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



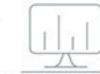
Full Automation

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



Custom Services

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



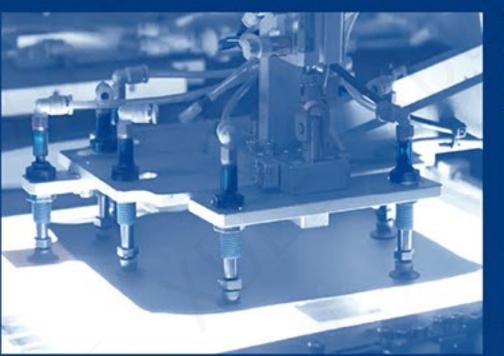
Precise Data Collection

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



Each battery product undergoes 10 rounds of screening and precision testing to ensure consistency, quality assurance, and safety.







QUALITY BENCHMARK

Quality Management System

IATF 16949 ISO 9001

Our focus

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

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

Real-time monitoring of process control points

Full-process product data raceability from raw material input to final product delivery

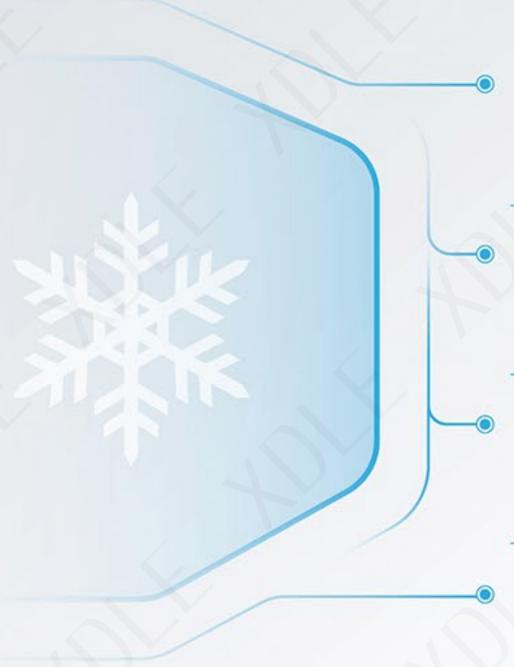
Process control points stablish IATF16949 quality management system

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.

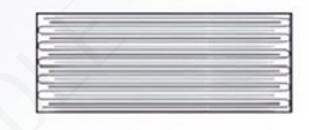
High Discharge Rate, Large Capacity

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



chemical system and extend the service life

Stacking Process



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

14

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.



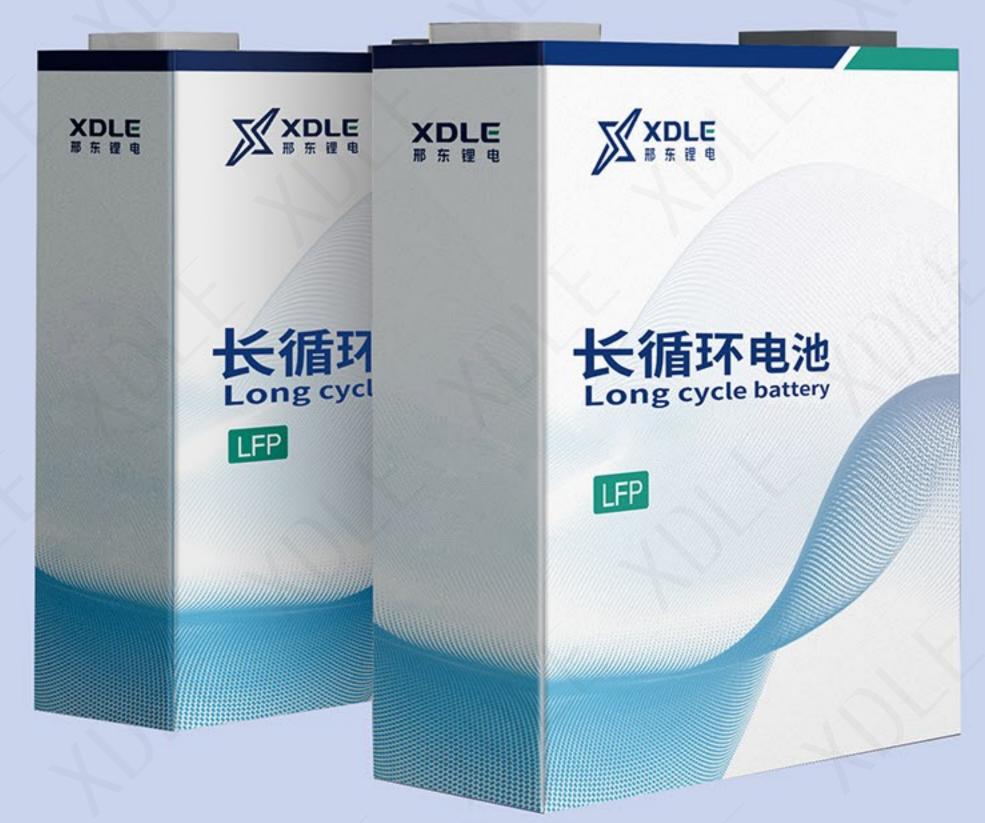
Energy

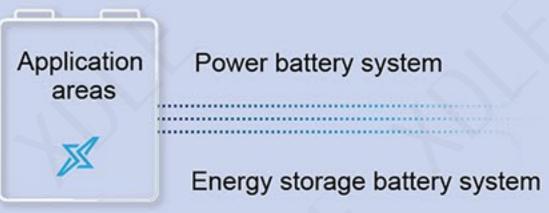
Energy density can reach ≥180Wh/kg.

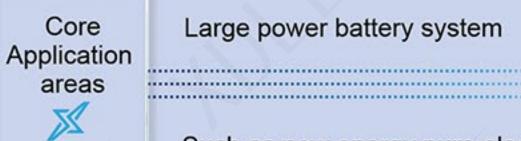


Internal Resistance

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







Such as new energy pure electric mining trucks, electric heavy trucks, etc.

Long cycle battery specification

Product model	206Ah Energy storage	206Ah power	230Ah power	280Ah Energy storage	280Ah power	314Ah Energy storage
Standard charge/ discharge current	0.5C/0.5C	1C/1.5C	1C/1.5C	0.5C/0.5C	1C/1.5C	0.5C/0.5C
Maximum continuous charge/discharge current	1C/1C	2C/3C	2C/3C	1C/1C	2C/3C	1C/1C
Peak pulse charge/ discharge current	3C/3C	8C/15C	6C/10C	3C/3C	8C/15C	3C/3C
Cycle Life	15000(0.3C/0.3C)	8000(1C/1C)	6000(1C/1C)	15000(1C/1C)	8000(1C/1C)	15000(1C/1C)
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
Energy density	170 (Wh/kg)	170 (Wh/kg)	180 (Wh/kg)	170 (Wh/kg)	170 (Wh/kg)	180 (Wh/kg)
Nominal voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Nominal internal resistance	<0.25mΩ	<0.25mΩ	<0.25mΩ	<0.25mΩ	<0.25mΩ	<0.25mΩ
Battery cell weight	4.0±0.12kg	4.0±0.12kg	4.13±0.12kg	5.3±0.12kg	5.3±0.12kg	5.6±0.12kg
Battery cell size	204	*173*54mm		2	04*173*71mm	

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



Experimental battery cell: LiFePO4-206Ah battery cell

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



Gun introduction: Type 95 rifle/bullet: 5.8mm

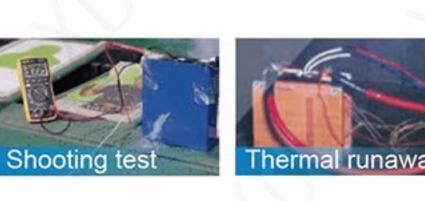
The battery is fully charged and the shooting battery experiment is carried out at normal temperature and pressure.



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

UI 9540A

UI 1973

UN38.3

ROHS

S16893Part2

16893Part3

B/T38031

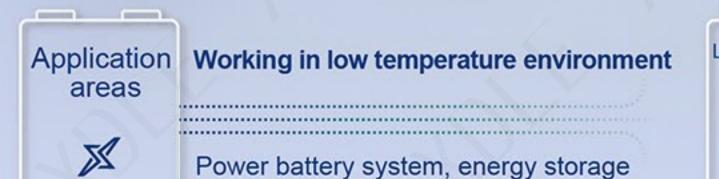
B/T31484

GB/T31486

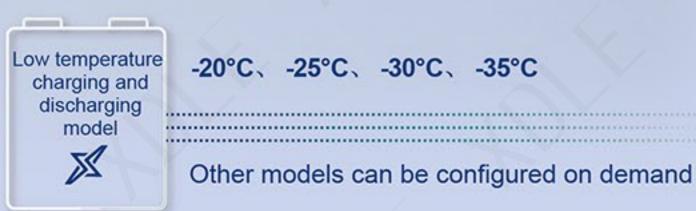
LOW-TEMPERATURE BATTERY

Products are constantly innovating and performance is continuously parameters are for reference only Application areas





battery system, etc.



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

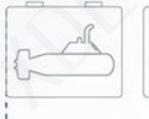
Energy density can reach ≥180Wh/kg.



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







UAVs, launchers, communication equipment, etc

High-tech equipment field

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

Rail transit field











Mining equipment, marine vessels, etc.

Heavy engineering equipment field





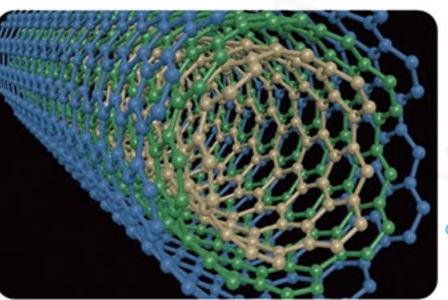


Low-temperature battery specifications



	Low-temperatu	re battery spec	cifications	
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

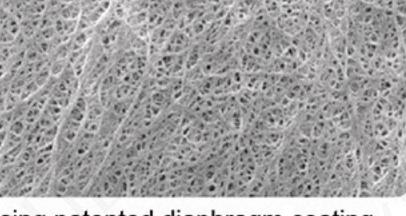


Through the compounding of carbon nanotubes and graphene, the battery impedance is greatly reduced and the rate performance is higher.

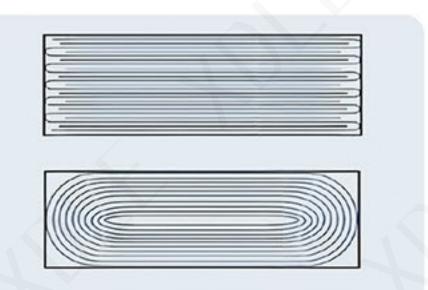


The patented in-situ gel electrolyte makes the battery more resistant to low temperatures.



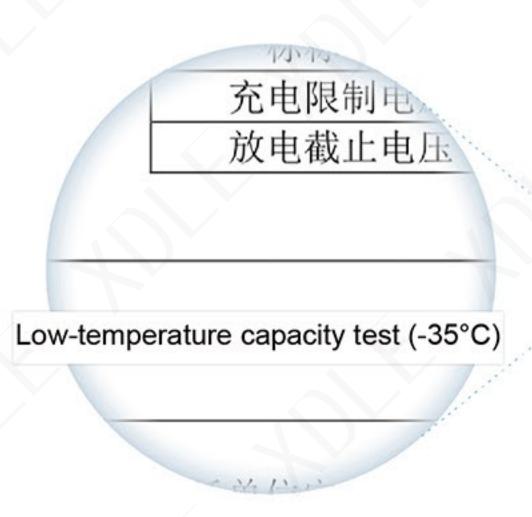


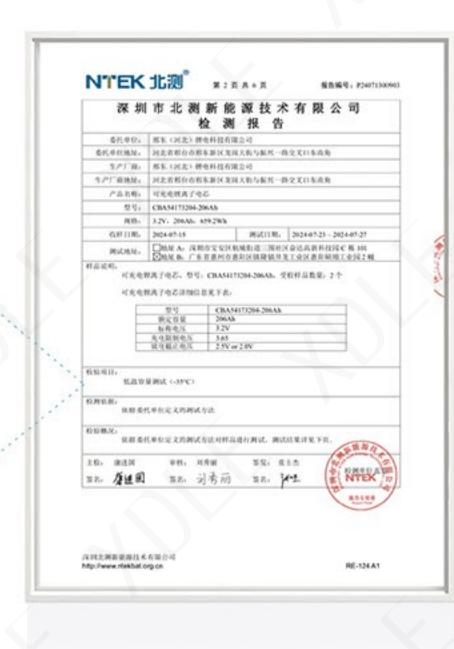
Using patented diaphragm coating technology, it effectively improves battery safety and cycle performance.



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

Low-temperature battery test report







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%)

h

2024Year 3 Month

aduction

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	≤0.25mΩ
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.

Electric power costs
< Fuel costs

Stronger power output

Motor>Engine

Maintenance cost reduction

Electric vehicle maintenance
< diesel vehicle maintenance

Higher work efficiency

Intelligent + automated

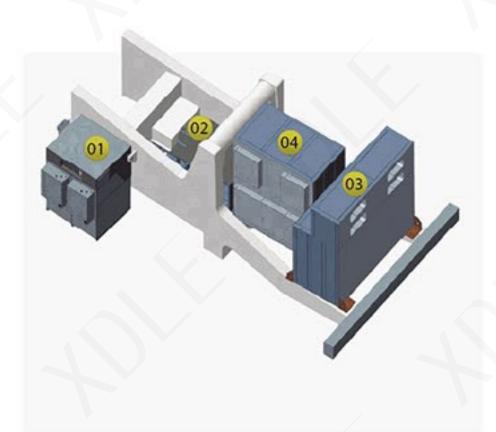
Environmental Advantages of Electric Mining Trucks

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 (kWh)	209.664	
	Rated Voltage (v)	748.8	
	Weight (kg)	1470±50	
	Protection Level	IP67	
	Operating Temperature Range (°C)	-35~65	
	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 (℃)	-35~65 2897*1160*249
Dimensions (mm)	Dual-channel liquid cooling
Cooling Method	Dual-criainiei ilquiu cooliilg

Mine Card Battery C Cabinet - LFP



93.184
332.8
660±20
IP67
-35~65
1727*1160*249
liquid cooling

POWER PRODUCTS

76.8V206Ah-Forklift Battery System

Product Parameters

Battery type	LFP	Rated charge/ discharge current (A)	206
Battery system grouping	1P24S	Recommended SOC operating range	5%~95%
Method Rated voltage (V)	76.8	Cooling method	Natural cooling
Rated power(kwh)	15.8	Protection level	IP65
Weight (kg)	132±7	Operating temperature range	-40~65°C
Voltage range(v)	60~87.6	Dimensions(mm)	690*600*397
	/		



Heavy truck standard C Cabinet

Product Parameters

100		- 0		
	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	-40~65°C
	Voltage range(v)	120~175.2	Dimensions(mm)	1060*630*245



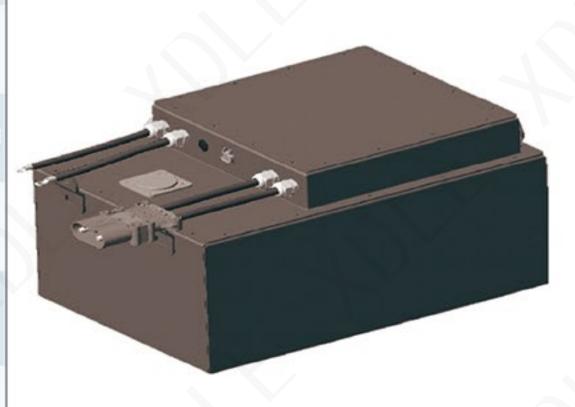
Application areas:

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

51.2V206Ah-Tractor Battery System

Product Parameters

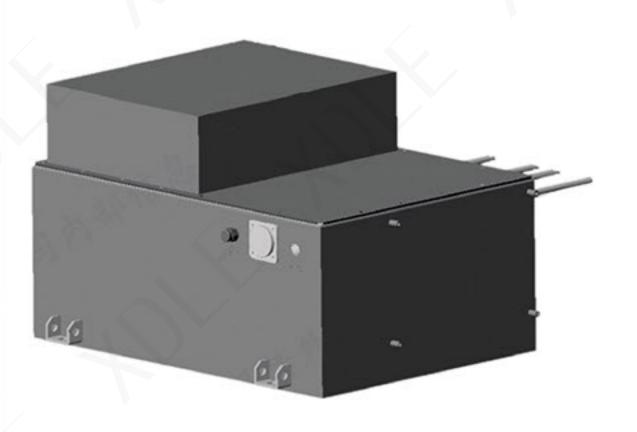
Battery type	LFP	Rated charge/ discharge current (A)	206
Battery system grouping	1P16S	Recommended SOC operating range	5%~95%
Method Rated voltage (V)	51.2	Cooling method	Natural cooling
Rated power(kwh)	10.5	Protection level	IP65
Weight (kg)	102±4	Operating temperature range	-35~65°C
Voltage range(v)	40~58.4	Dimensions(mm)	567*396*338



153.6V 206Ah/153.6V 230Ah-Loader Battery

Product Parameters

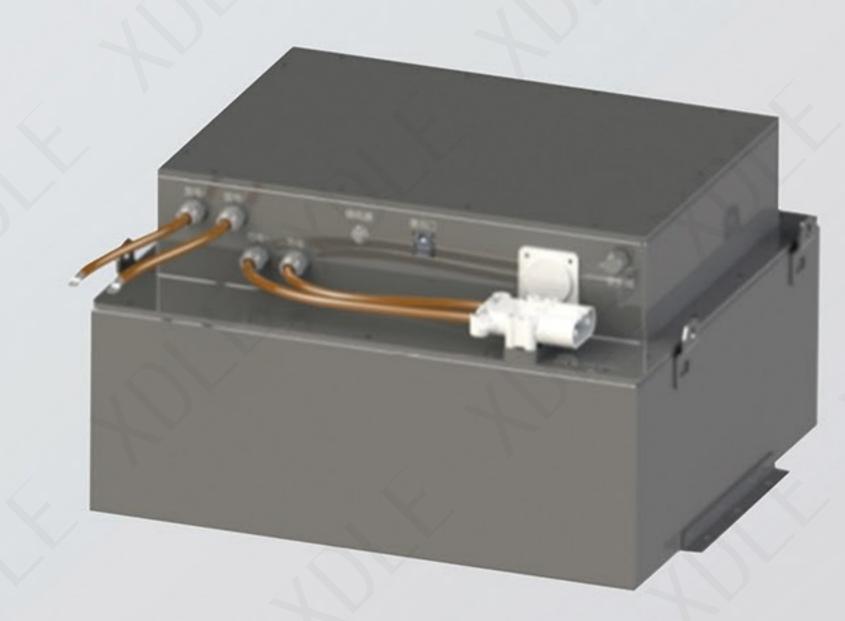
Battery type	LFP	LFP
Battery system grouping	1P48S	1P48S
Method Rated voltage (V)	153.6	153.6
Rated power(kwh)	31.6	35.3
Weight (kg)	272±12	223±7
Voltage range(v)	120~175.2	120~175.2
Rated charge/ discharge current (A)	206	230
Recommended SOC operating range	5%~95%	5%~95%
Cooling method	Natural cooling	Natural cooling
Protection level	IP65	IP65
Operating temperature range	-35~65°C	-35~65°C
Dimensions(mm)	775*597*487	775*597*487



26

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)	-35~65
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

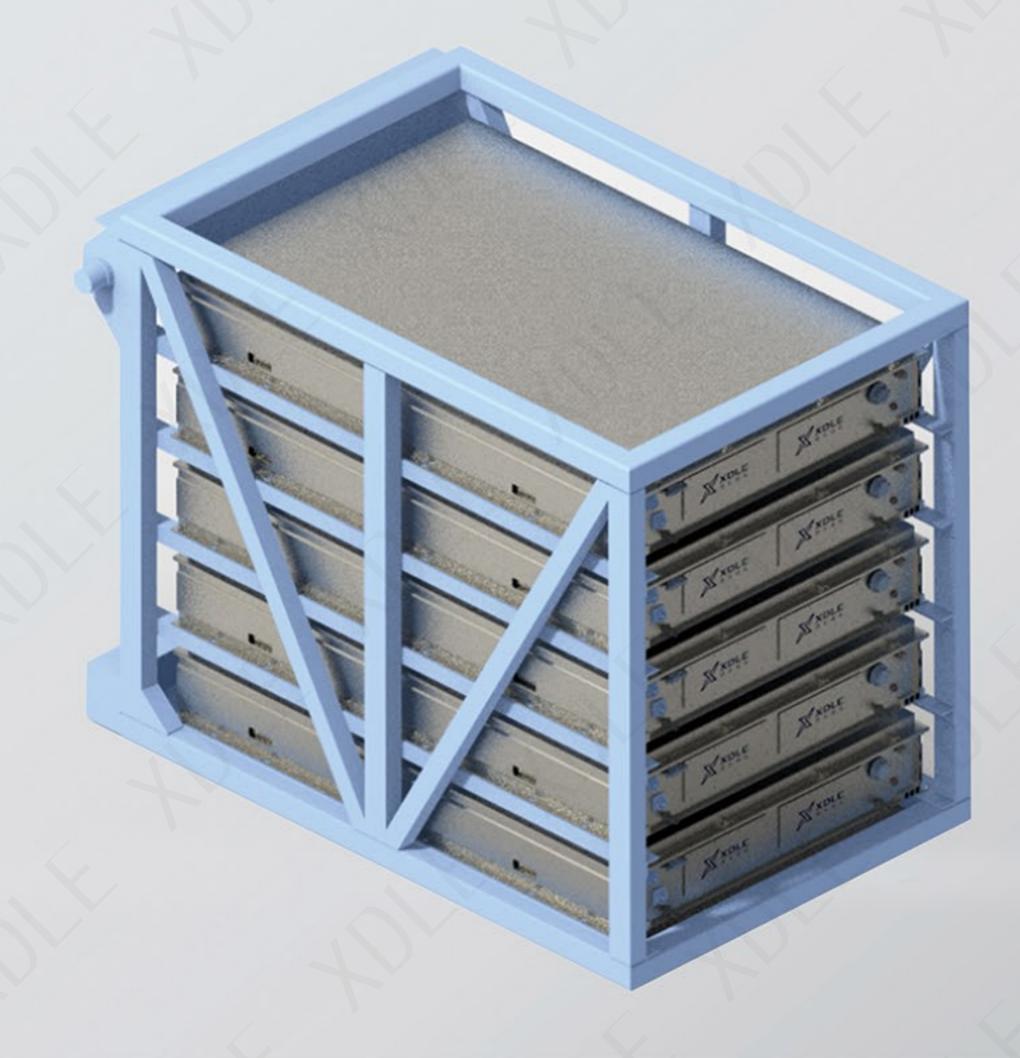
Applied to mining trucks



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 coolin	ng
Protection level	IP67	
Cycle life	1C charge and discharg	e>8000 times
Operating temperature range (°C)	-35~65	

Mining Truck diesel to Electric Series

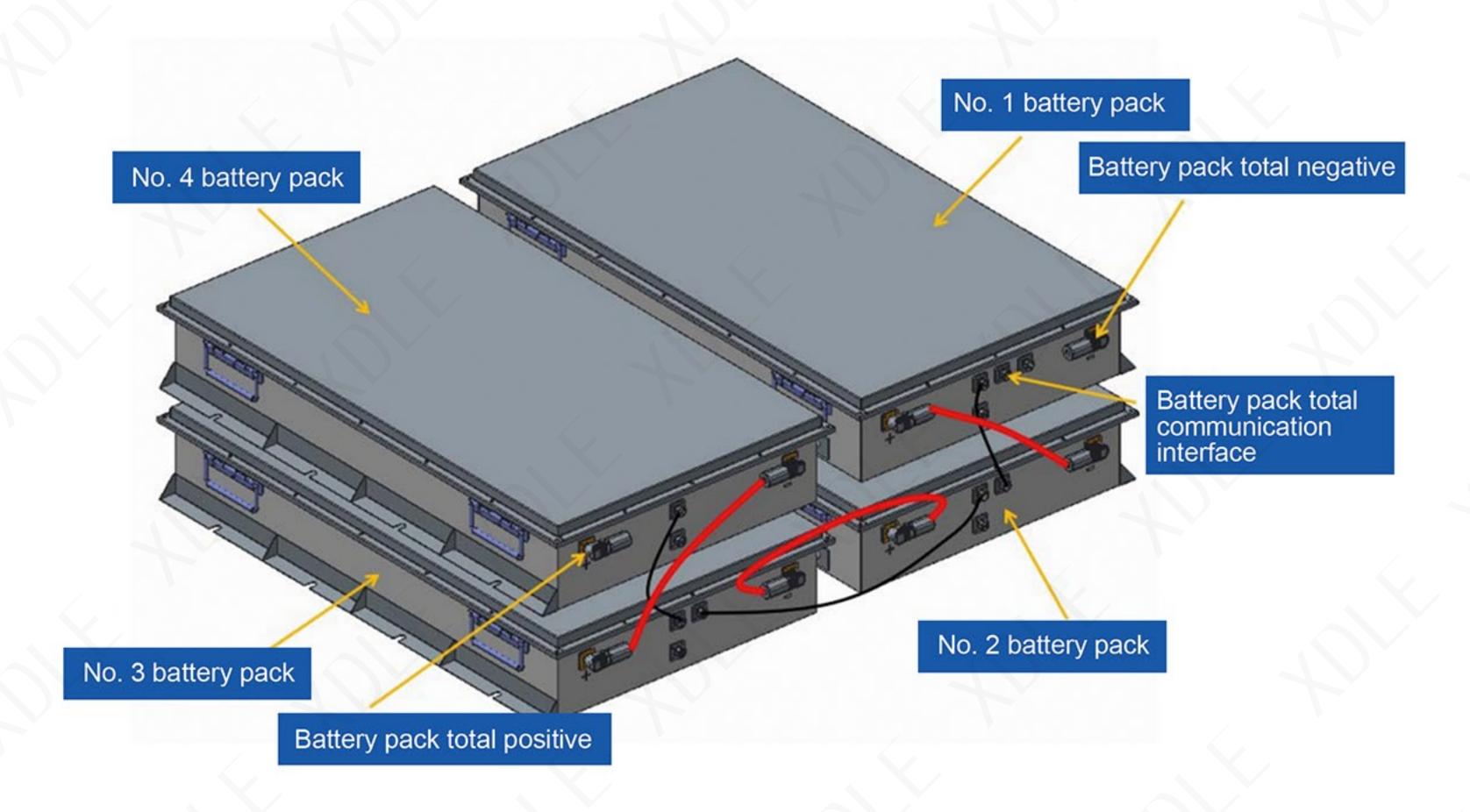
154T Mining Truck diesel to electricity - Battery System



Parameters

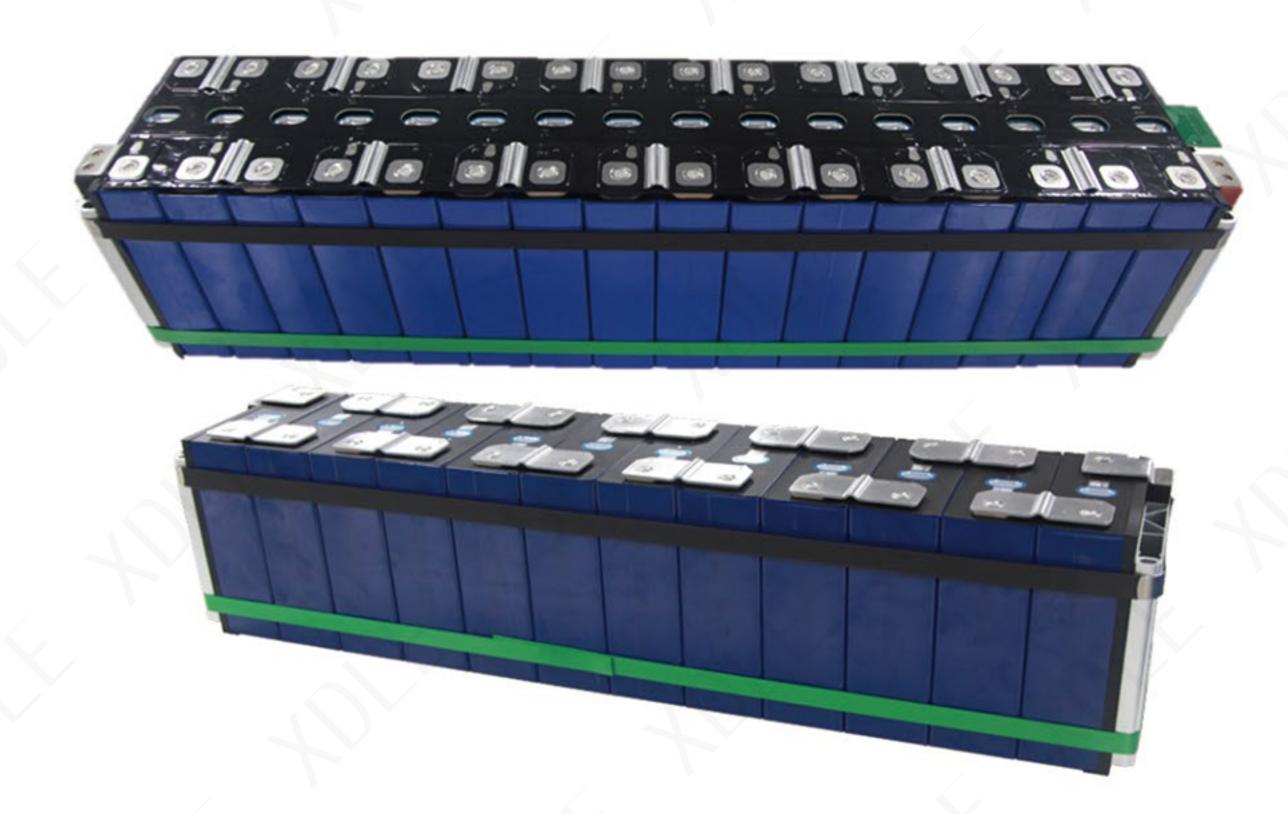
Name	Parameter
Battery cell	3.2V280Ah
Grouping method	1P13S(41.6V280Ah)
High-voltage battery cluster	1P416S(1331.2V280Ah)
High-voltage battery stack	4P416S(1331.2V280Ah*4)
Low-voltage battery cluster	1P208S (665.6V280Ah)
Low-voltage battery stack	3P208S(665.6V280Ah*3)
System power	1490.944kWh
Operating temperature range(°C)	-35~65

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(°C)	-35~65

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%

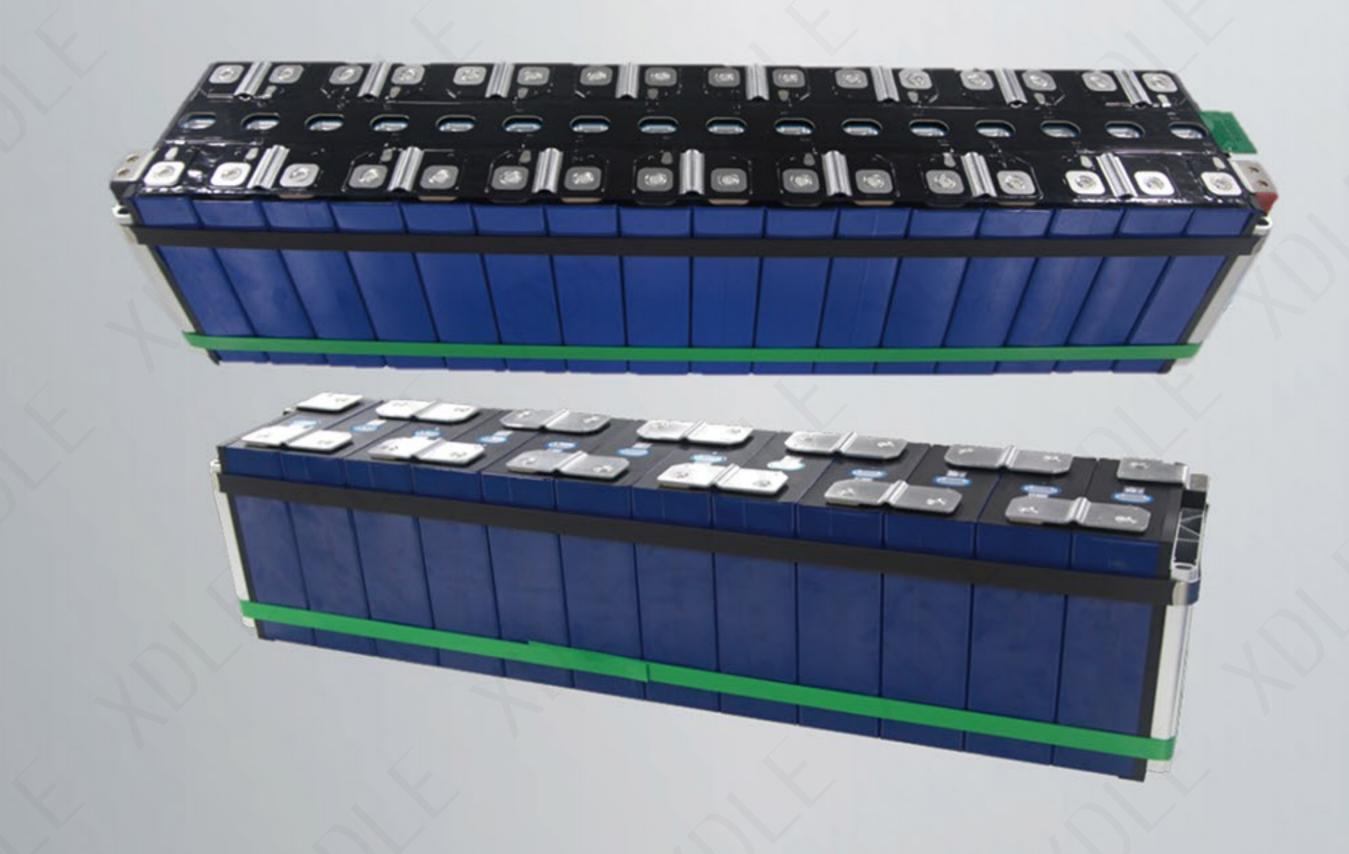
Higher energy saving

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

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 (℃)	-35~65	-35~65

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
Nominal voltage (V)	51.2	Operating temperature range (°C)	-35~65
Discharge voltage cut-off (V)	45	Weight (kg)	103±5
Charge voltage cut-off (V)	58.4	Dimensions (mm)	800*680*154

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

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

Longer lifespan

design, the number Service life of >10 years as can be increased

Stable and reliable power supply

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

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Stackable 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
Nominal voltage (V)	51.2	Operating temperature range (°C)	-35~65
Discharge voltage cut-off (V)	45	Weight (kg)	140
Charge voltage cut-off (V)	58.4	Dimensions (mm)	760*263*1023



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

Save space

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

Safe and stable

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

Stackable energy storage system

Home Energy Storage Series

Higher energy saving

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

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

Versatility

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

Intelligent monitoring

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



Product Parameters

Battery type	LFP	Rated power (kW)	5
Rated capacity (kWh)	21	Rated charge and discharge current (A)	52
Nominal voltage (V)	51.2	Operating temperature range (℃)	-35~65
Discharge voltage cut-off (V)	40	Weight (kg)	249±5
Charge voltage cut-off (V)	58.4	Dimensions (mm)	760*263*1636

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)	-35~65
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

Photovoltaic Storage Indoor System

20KW/42KWh



Cell type:	lithium iron phosphate	Rated voltage:	2048V DC
Rated power:	42.18KWh	Weight:	450±50Kg
Rated charging and discharging power:	20KW	Size:	800mm(D)*600mm(W)

Photovoltaic Storage Indoor System

30KW/74KWh



Parameters

Cell type:	lithium iron phosphate	Rated voltage:	358.4V DC
Rated power:	73.83KWh	Weight:	710±50Kg
Rated charging and discharging power:	30KW	Size:	2pcs 800mm(D)*600mm(W)*1400mm(H)

Photovoltaic Storage Indoor System

50KW/95KWh



Cell type:	lithium iron phosphate	Rated voltage:	460.8V DC
Rated power:	94.92KWh	Weight:	970±80Kg
Rated charging and discharging power:	50KW	Size:	2pcs 800mm(D)*600mmW)*1400mm(H)

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)	-35~65

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)	-35~65

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Grid-Tied & Off-Grid Solar-Diesel Hybrid System(Air-cooling)

50KW/105KWh

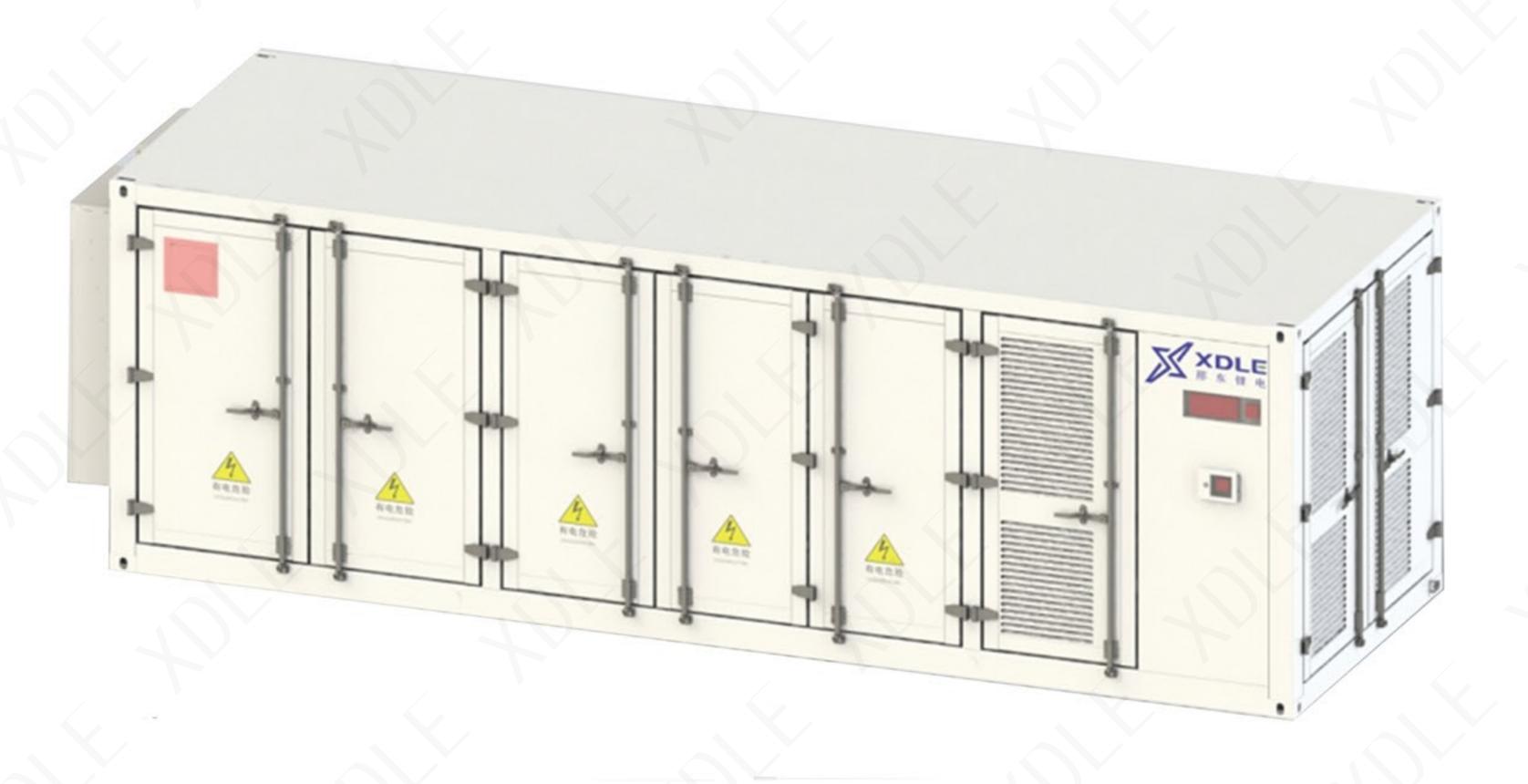


Parameters

Cell type:	lithium iron phosphate	Nominal voltage:	512V
Rated power:	105kWh	Weight:	1700kg
Rated power:	50KW	Size:	1409mm*1278mm*1700mm
Maximum charge/ discharge current:	140A		

C&I ESS Container with Air cooling

1MW/2.41MWh



Cell type:	lithium iron phosphate	Weight:	24±2T
Rated power:	2.15MWh(51.2V 280Ah)	Size:	8000*2438*2591mm
Rated power:	1MW	Cooling mode:	Air-cooling
Rated voltage:	768V		

C&I ESS Container with Air cooling

0.5MW 1.075MWh



Parameters

Name	0.5MW 1.075MWh-10-foot Energy Storage Container	AC output voltage(V)	400V
Battery Type	lithium iron phosphate	Rated charge/discharge current (A)	140
Grouping method	5P240S	Cooling Method	Air cooling
Rated Voltage (V)	768	IP Level	IP55
Total Power(kWh)	1075	Dimension (mm)	3048*2600*3200mm
Weight (T)	10±0.5	Operating temperature range(°C)	-35~65

C&I ESS Container with Air cooling

0.5MW 1.505MWh



Name	1.505MWh(51.2V 280Ah)	Rated current:	140A
Battery Type	Lithium iron phosphate	Weight:	20±0.5T
Rated power:	0.5MW	Size:	6091*2438*2800mm
Rated voltage:	768V	Cooling mode:	Air-cooling

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C&I ESS Container with Liquid cooling

1MW 2.15MWh



Parameters

Cell type:	Lithium iron phosphate	Rated current:	1884A
Rated power:	5.016MWh(332.8V 314Ah)	Weight:	40 ± 2T
Rated power:	2.5MW	Size:	6091*2438*2895mm
Rated voltage:	1331.2V	Cooling mode:	Liquid-cooling

SERVICE SUPPORT



Professional Customer Training
Providing expert training



Timely Remote Support
Online technical support available at any time



Regular Maintenance

Keeping your system in optimal operating condition



After-Sales Service

7*24 hours after-sales service guarantee system



Sales and service network spans globally



- Existing Locations
- Planned Locations

Middle East	Asia	North America	South America	Africa
Dudai	Hebei, Shenzhen, Dongguan, India	USA		Congo(DRC)
Saudi Arabia, Oman, Qatar	Vietnam, South Korea	Mexico	Brazil	Namibia, Egypt

Pioneer in mass production of solid-state batteries and low-temperature batteries 49 / GREEN CARBON FUTURE Technological innovation Promoting high-quality and sustainable development of the green energy industry **Brand Initials** Globally Manufacturing safe, efficient, long life, and low-temperature resistant new lithium battery products **Brand Mission** Customer First, Providing customers with personalized complete solutions for lithium battery applications and full life cycle services **Brand Concept**