LINX NRG®

GREEN POWER. GREEN FUTURE

A Leading Company/Manufacturer in Lithium Battery Business

01

Company Introduction

Company Summary

LINX NRG®
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To be technology innovation oriented company focusing on lithium battery development.

To bring green and reliable lithium battery to customers all over the world

Founded in 2009,
Lead acid battery.

Second startup in 2013,
Lithium iron battery.

Dedicated to Lithium iron
phosphate battery since 2015.

In 2016, a newly built plant
in Huizhou.
Started business all over the world.

In 2019, Second plant
of LINX in Wuhan was built.

Today, with business all over the world,
we are focusing on the product development.

R&D Capability

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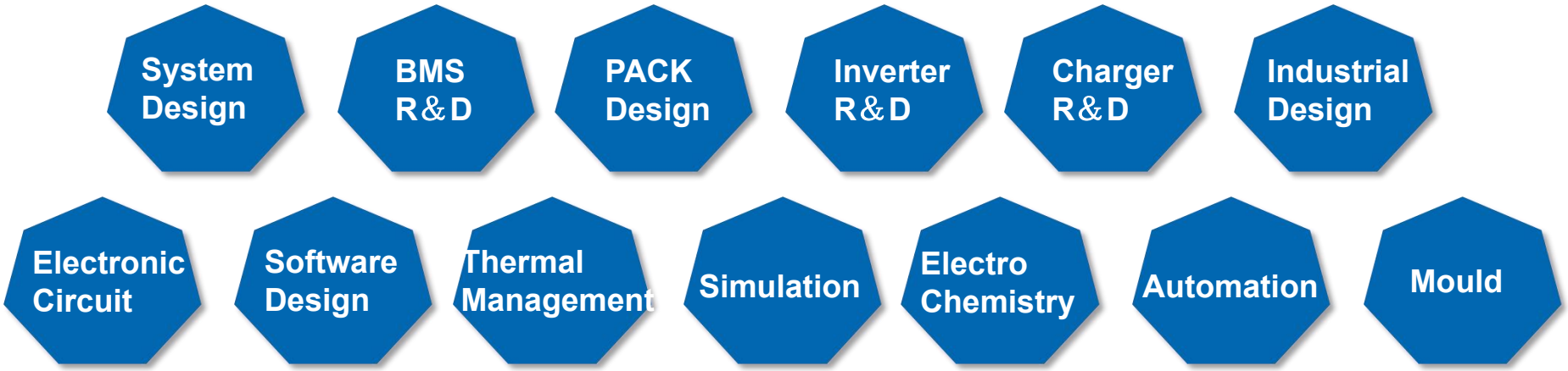

100+ researchers and technicians
5 doctors with more than 10years experience
All aspects of stand-alone RCD functionality and
end-to-end delivery capability
Including system design, structure design, BMS and other
independent RSD, charger independent RCD, software RCD,
thermal management, automation, modules and so on.
We have strong independent RSD capabilities and capability
base components in our core areas

Quality System

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Supplier Management

- Test sample
- Small batch trial production
- Supplier audit
- Regular coaching by suppliers

Incoming Inspection

- Supplier Shipping Report
- Incoming inspection
- Material test
- FIFO Management

Process Control

- Incoming material (IQA)
- Coating (PQA)
- Production (PQA)
- Assembly (PQA)
- Infusion (PQA)
- Formation (PQA)
- Partitioning (PQA)
- Packaging (FQA)
- Shipment (OQA)

Reliability

- Cycle test
- Magnification test
- High and low temperature test
- High temperature storage test
- Thermal shock cycle
- High temperature and humidity
- Overcharge, Drop test
- Short-circuit test
- Thermal shock test
- Heavy object impact test
- Squeeze test, ·Puncture test

Shipment inspection

- Inspection confirmation
- every Lot shipment
- Packaging inspection
- confirmation
- Cell bar code
- confirmation check

Certification

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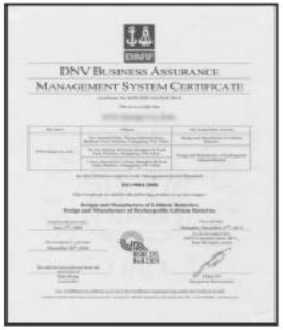
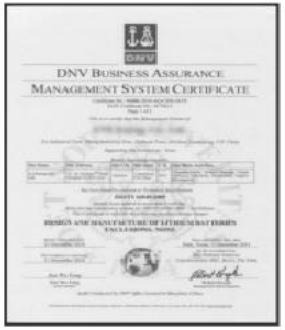
ISO9001



ISO14001

IATF16949



OHSAS18001

CE

UN

UL

IEC

CB

All customized models can be certified

02

Products&Markets

Markets

LINX NRG®
GREEN POWER. GREEN FUTURE

Sightseeing Car

Golf Cart

Patrol Car

Electric Train

Electric Fork-lift Truck

AGV

Sweeping Car

Electric Boat

Energy Storage Tank

Scissor cart

RV

Compact excavator

Power Wall

etc.....

Products - Lithium battery vs Lead acid

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Products - Low Speed EV Battery

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weigh t (kg)	Weight (lbs)	Continuous discharge	Max discharge (10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
12	LN1250	12.8	50	640	229*138*213	7	15.4	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN1212	12.8	120	1536	323*173*218	16	35.3	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN1215	12.8	150	1920	485*172*240	24	52.9	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN1224	12.8	240	3072	520*269*208	34.2	75.4	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
24	LN2510	25.6	105	2688	448*244*261	24	52.9	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN2516	25.6	160	4096	508*350*191	39	86.0	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN2521	25.6	210	5376	524*360*261	46	101.4	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
36	LN3856	38	56	2128	385*338*345	27	59.5	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67
	LN3810	38	105	3990	385*338*345	34	75.0	1C	1.5C	3.5h	> 3500 times	Max 3%	Steel	IP67

Products - Low Speed EV Battery

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge (10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
48V	LN5110	51.2	100	5120	420*316*280	45	99.2	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN5116	51.2	160	8192	575*316*300	71	156.6	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN5120	51.2	200	10240	895*285*255	89	196.2	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN5124	51.2	240	12288	985*295*255	107	235.9	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN5127	51.2	270	13824	960*318*270	120	264.6	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
72V	LN7608	76.8	80	6144	610*285*260	56	123.5	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7610	76.8	100	7680	862*375*223	70	154.4	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7613	76.8	135	10368	950*320*250	94	207.3	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7616	76.8	160	12288	860*295*245	112	247.0	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7620	76.8	200	15360	1155*295*290	140	308.7	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7624	76.8	240	18432	1120*295*300	168	370.4	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7630	76.8	300	23040	830*570*245	209	460.8	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN7639	76.8	339	26035.2	1000*305*300	227	500.5	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67

Products - Low Speed EV Battery

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge (10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
96	LN9630	96	300	28800	1050*300*300	262	577.7	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN9640	96	400	38400	1200*295*300	349	769.5	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN9650	96	500	48000	1498*305*310	436	961.4	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67
	LN9660	96	600	57600	1200*308*305	524	1155.4	1C	1.5C	3.5h	>3500 times	Max 3%	Steel	IP67

* (Charge current and charging time depend on charger & More size are available)
* (Orders for ready-made or **custom-made** articles are welcome)

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10KWH 48v 200AH Lifepo4 Battery Powerwall For Home Solar Storage System

Product Specification:
Battery Chemistry: Lithium Iron Phosphate [LiFePO4]
Nominal Voltage: 3.25 Volt [per cell]
Charging Voltage: 3.45 Volt [per cell]
Cycle Life: > 7,000 cycles at 70% DOD
Warranty: 10 years
Efficiency: 95%
More details in datasheet

Best selling products in the market!
Welcome custom made

Energy Storage System - Battery Pack

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51.2V-100AH Lithium-Ion Battery Pack（LFP）

Spec	
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5120 WH
Dimensions (L x W x H)	442*520*177MM
Weight	43KG
Case Material	ABS/Iron case
Efficiency	99%
Self Discharge	<1% per Month
Series & Parallel Application	max. 4 series or 4 parallel connected application
Peak Discharge Current	200 A
Continue Discharge Current	100 A
Operation Temperature Range	-20~60℃
The voltage at end of the Discharge	48 V
Working Voltage	48-55V
Discharge Temperature	-4 to 140 ºF (-20 to 60 ºC)
Charge Temperature	32 to 113 ºF (0 to 45 ºC)
Storage Temperature	23 to 95 ºF (-5 to 35 ºC)
Cycle Life	> 3000 cycles

Welcome custom made!!

Energy Storage System - Battery Pack Design

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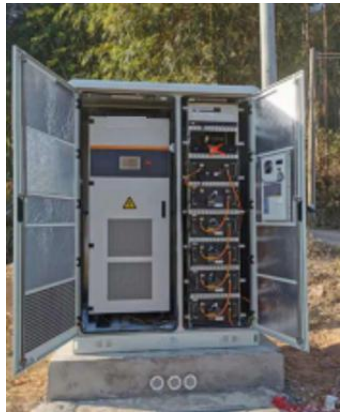

Welcome custom made!!
We are capable of every design.

Products - Battery System For Golf cart

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Features:

Long Life Cycle:

Our LiFePO4 battery capacity is over 80% left after 1C charge & discharge under 100% DOD condition for 3,500 cycles. The design life is up to 10 years, ut the lead-acid battery will only cycle 500 times at 80% DOD.

Zero Maintenance:

No waterfilling, no terminal tightening and cleaning of acid deposits on the top of our batteries.

Lightweight:

Half of the size and 1/4 of the weight take a big load off of the turf, protecting one of customer’s most valuable assets. The lighter weight also means the golf cart can reach one of customer’s most valuable assets. The lighter weight also means the golf cart can reach higher speeds with less effort and carry more weight without feeling sluggish to the occupants.

Ultra-Safe:

It contains multiple built-in protection functions:
over charge protection, over discharge protection, over heated protection, short circuit protection.

5-Year Warranty:

We will offer a 5-year warranty service to ensure the professional technical support and replacement for golf cart battery

Golf Cart System Specifications

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge(10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
36	LN3856	38	56	2128	385*338*345	27	59.5	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN3810	38	105	3990	385*338*345	34	75.0	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
48V	LN5110	51.2	100	5120	420*316*280	45	99.2	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5116	51.2	160	8192	575*316*300	71	156.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5124	51.2	240	12288	985*295*255	107	235.9	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5127	51.2	270	13824	960*318*270	120	264.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
72V	LN7608	76.8	80	6144	610*285*260	56	123.5	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7610	76.8	100	7680	862*375*223	70	154.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7616	76.8	160	12288	860*295*245	112	247.0	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7624	76.8	240	18432	1120*295*300	168	370.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7630	76.8	300	23040	830*570*245	209	460.8	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67

* (Charge current and charging time depend on charger & More size are available)
* (Orders for ready-made or **custom-made** articles are welcome)

Products - Battery System For E-boat

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Spec	
Dimension(L*W*H)	1250*1100*245mm
Nominal voltage	576V
Nominal capacity	210Ah
Charge current	60A
Discharge current	100A
Charge Cut-off voltage	657V
Discharge Cut-off voltage	486V
Charge Temperature	0~55℃
Discharge Temperature	-20~60℃
Cellpacking	Steel
Standard battery interface	Charging, discharge, display, charger communication, switch
Lithium battery protection	Overcharge, over discharge, over current, short circuit, balancing function, remote management
Life cycle	≥2500
Weight	950kg

Features: 3-years warranty
Long cycle life
Good environmental adaptability
ODM service is available
IP67- waterproof
ISO14000, GB, UN and ROHS compliant

Battery System For FCM

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Features:

Save time and money: LiFePO4 batteries eliminate the need for spare batteries and charging rooms. Save time and money by eliminating time spent on watering, cleaning and equalizing FCM batteries.

Long battery life, maximize productivity and zero maintenance: The design life of lithium ion battery is 10 years, with 5 years warranty can ensure more time cleaning and less time dealing with maintenance, battery training or battery replacements.

Safer for employees and better for indoor environment : FCM LiFePO4 batteries have more thermal and chemical stability and multiple built-in protection functions. They can also improve indoor air quality and reduce the risk of accidents by eliminating exposure to flammable fuels and battery acid.

Fast charging and no memory, can be charged anytime: Lead-acid batteries need 8 hours to charge and another 8 hours to cool down. A LiFePO4 FCM battery can fully charge in as little as an hour, or at the very least make more efficient use of opportunity charging during breaks -

making LiFePO4 an ideal choice for multi-shift operations.

IP67, water and dust proof: The FCM is generally working in the water or more dust environment, in the shell or the interfaces, it has special waterproof and dustproof design.

FCM Battery System Introduction

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge(10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
24	LN2510	25.6	105	2688	448*244*261	24	52.9	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN2516	25.6	160	4096	508*350*191	39	86.0	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN2521	25.6	210	5376	524*360*261	46	101.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67

* (Charge current and charging time depend on charger & More size are available)
* (Orders for ready-made or **custom-made** articles are welcome)

Battery System For Forklift

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Features:

Save money and space:

Lithium batteries eliminate the need for spare batteries and charging rooms. Save time and money by eliminating time spent on watering, cleaning and equalizing forklift batteries.

Longer, more consistent performance:

As lead-acid batteries discharge, their voltage drops. Meaning the longer they work, the slower they run.Lithium-ion batteries store about three times more energy than a conventional battery, provide consistent voltage, and don’ t slow down your machine as they discharge.

Safer for Employees and Better for the Environment:

Lithium-ion lift truck batteries have a 4x longer life cycle, are 30% more energy-efficient, do not emit fumes or CO2, and there“s no risk of acid spills.

Fully-charged in as little as one hour:

Lead-acid batteries need 8 hours to charge and another 8 hours to cool down. A lithium-ion forklift battery can fully charge in as little as an hour, or at the very least make more efficient use of opportunity charging during breaks

making lithium ion an ideal choice for multi-shift operations.

Forklift Battery System Introduction

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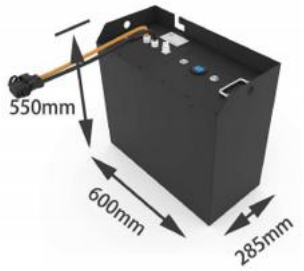
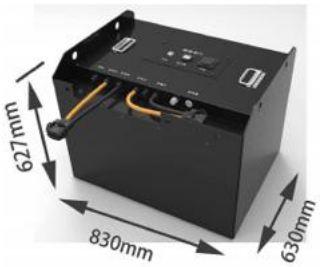
24V300Ah Forklift Battery



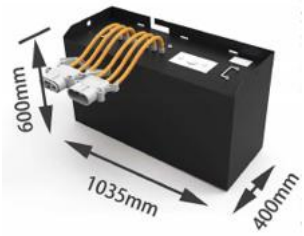
Spec	
Nominal voltage	25.6V
Nominal capacity	300Ah
Charge current	30~200A
Discharge current	280A
Charge Cut-off voltage	29.2V
Discharge Cut-off voltage	21.6V
Charge Temperature	0~55℃
Discharge Temperature	-20~60℃
Cellpacking	Steel
Life cycle	≥3500
Weight	65Kg

48V560Ah Forklift Battery



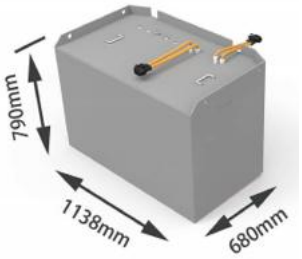
Spec	
Nominal voltage	51.2V
Nominal capacity	560Ah
Charge current	30~200A
Discharge current	500A
Charge Cut-off voltage	58.4V
Discharge Cut-off voltage	43.2V
Charge Temperature	0~55℃
Discharge Temperature	-20~60℃
Cellpacking	Steel
Life cycle	≥3500
Weight	600kg

48V400Ah Forklift Battery



Spec	
Nominal voltage	51.2V
Nominal capacity	400Ah
Charge current	30~200A
Discharge current	380A
Charge Cut-off voltage	58.4V
Discharge Cut-off voltage	43.2V
Charge Temperature	0~55℃
Discharge Temperature	-20~60℃
Cellpacking	Steel
Life cycle	≥3500
Weight	500kg

72V412Ah Forklift Battery



Spec	
Nominal voltage	76.8V
Nominal capacity	412Ah
Charge current	30~200A
Discharge current	400A
Charge Cut-off voltage	87.6V
Discharge Cut-off voltage	60V
Charge Temperature	0~55℃
Discharge Temperature	-20~60℃
Cellpacking	Steel
Life cycle	≥3500
Weight	1250kg

Forklift Battery System Introduction

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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge(10 sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
48V	LN5110	51.2	100	5120	420*316*280	45	99.2	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5116	51.2	160	8192	575*316*300	71	156.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5124	51.2	240	12288	985*295*255	107	235.9	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5127	51.2	270	13824	960*318*270	120	264.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
72V	LN7608	76.8	80	6144	610*285*260	56	123.5	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7610	76.8	100	7680	862*375*223	70	154.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7616	76.8	160	12288	860*295*245	112	247.0	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7624	76.8	240	18432	1120*295*300	168	370.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN7630	76.8	300	23040	830*570*245	209	460.8	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67

* (Charge current and charging time depend on charger & More size are available)
* (Orders for ready-made or **custom-made** articles are welcome)

Battery System For AWP

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Features:

Long life & 5-year or 10,000-hour warranty

Over 3 times longer than the lifetime of lead acid batteries, 10 years design life, 5 years or 10,000 hours warranty service to ensure the professional technical support and replacement for LFP battery.

High performance:

Our LiFePO4 battery can keep stable and high performance working condition ven after lifting for many times when 30% capacity left without resting. But lead acid batteries need 15 minutes resting after 3-5 times.

Zero Maintenance:

No waterfilling, no terminal tightening and cleaning of acid deposits on the top of our batteries.

Light weight:

4X lighter than lead-acid batteries, more efficient when working and lifting.

All-weather battery:

Works safely and efficiently, charging with self-heating function when temperatures at -4 ° F （-20° C） and discharge rate can up to 80%.

AWP Battery System Specification

LINX NRG®
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Voltage	Model	Nominal voltage (V)	Nominal capacity (Ah)	Stored energy (Wh)	Dimension L*W*H(mm)	Weight (kg)	Weight (lbs)	Continuous discharge	Max discharge(10sec)	Charging time	Life cycles	Self discharge (per month)	Casing material	IP rate
24	LN2510	25.6	105	2688	448*244*261	24	52.9	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN2516	25.6	160	4096	508*350*191	39	86.0	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN2521	25.6	210	5376	524*360*261	46	101.4	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
48V	LN5110	51.2	100	5120	420*316*280	45	99.2	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5116	51.2	160	8192	575*316*300	71	156.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5124	51.2	240	12288	985*295*255	107	235.9	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67
	LN5127	51.2	270	13824	960*318*270	120	264.6	1C	1.5C	3.5h	>3000 times	Max 3%	Steel	IP67

* (Charge current and charging time depend on charger & More size are available)
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E-Motorcycle Battery

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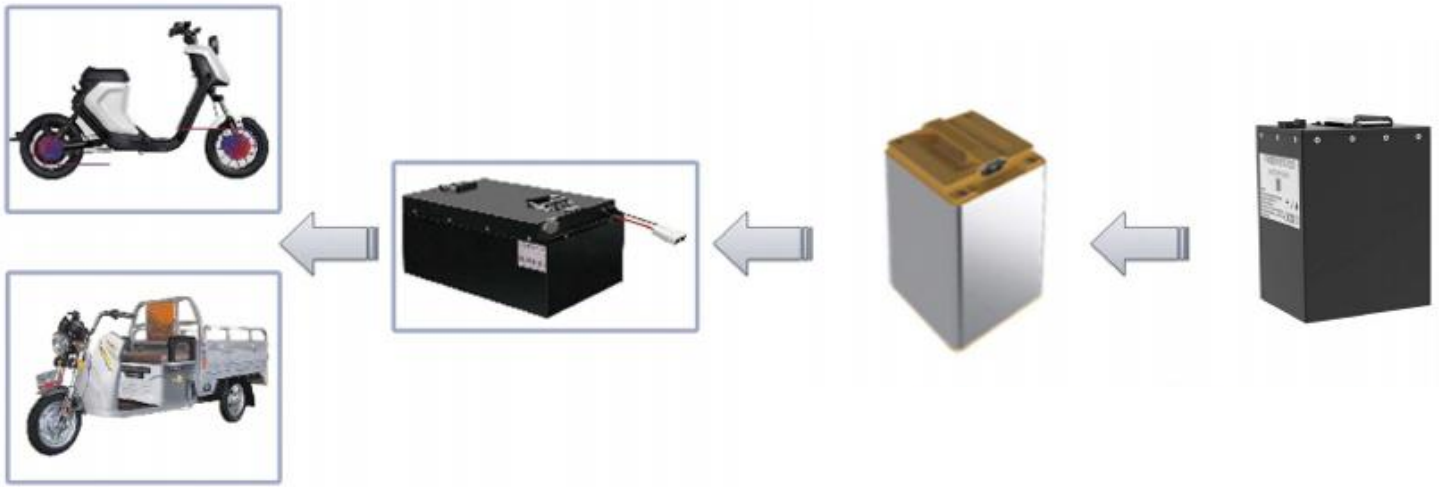
TWO WHEELED AND THREE WHEELED VEHICLE BATTERIES



Vehicle Type: P046			
Rated voltage	48-50V	Cell combination	16S1P
Ampere hours	50-55Ah	Discharging method	Direct discharge
Capacity	2 - 2.5kWh	Max cont. discharge	90 A (3C - 3.6C)
Waterproof	IP67	Life cycle	>1000 cycles with 80% SoC
Battery type	LFP50Ah	Peak discharge	120 A for 30 seconds
Range	80 – 100 km	Max charging rate	25A (1C - 1.35C)
Standard operating temperature	10°C to 60°C	Dimension (L*W*H)	165 x 250 x 300mm
		Weight	16-22 kg (Inc. BMS & Housing)

Product design renderings

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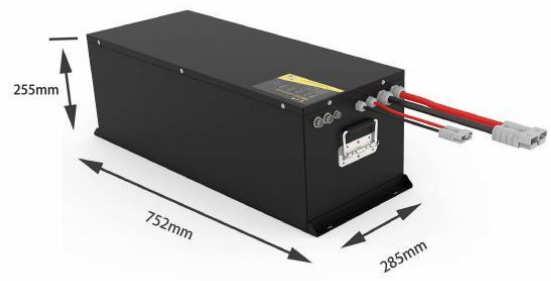

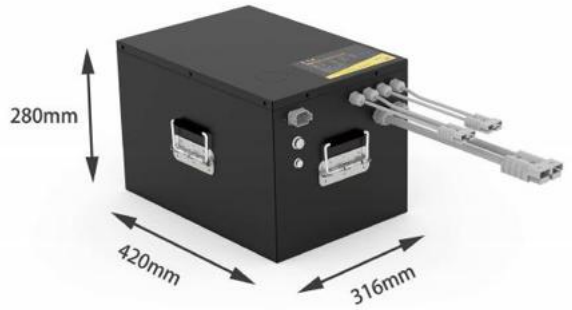

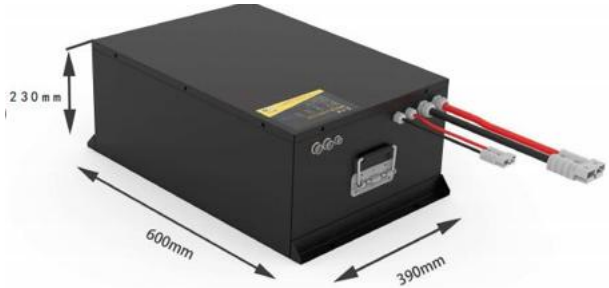

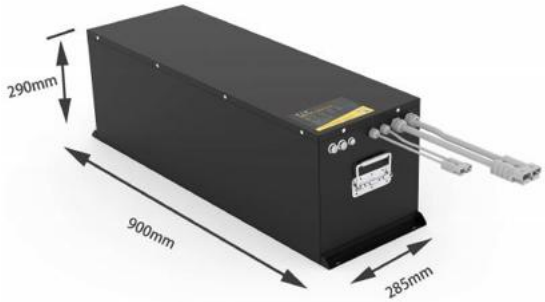

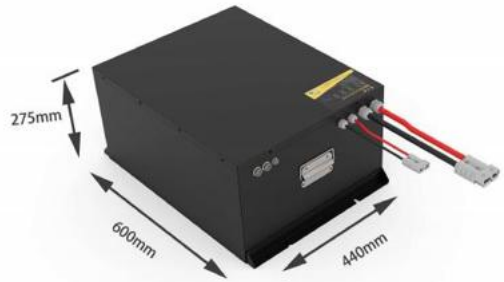

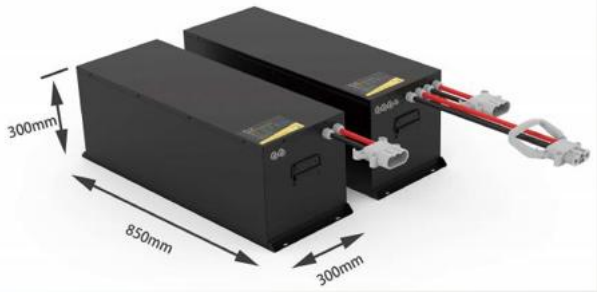

03

Pack Design Ability

Battery System Design

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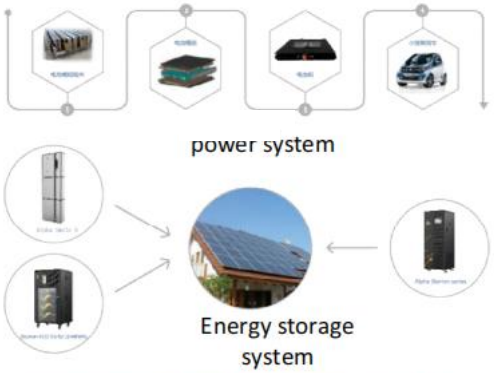
Cell → Module + BMS → System

Automative manufacturing

Information manufacturing



Power management

* Linx is an expert in battery system design and commit ourself to system creation
* Different sizes, capacities and voltages can be customized according to customer requirements

Product Structure Design

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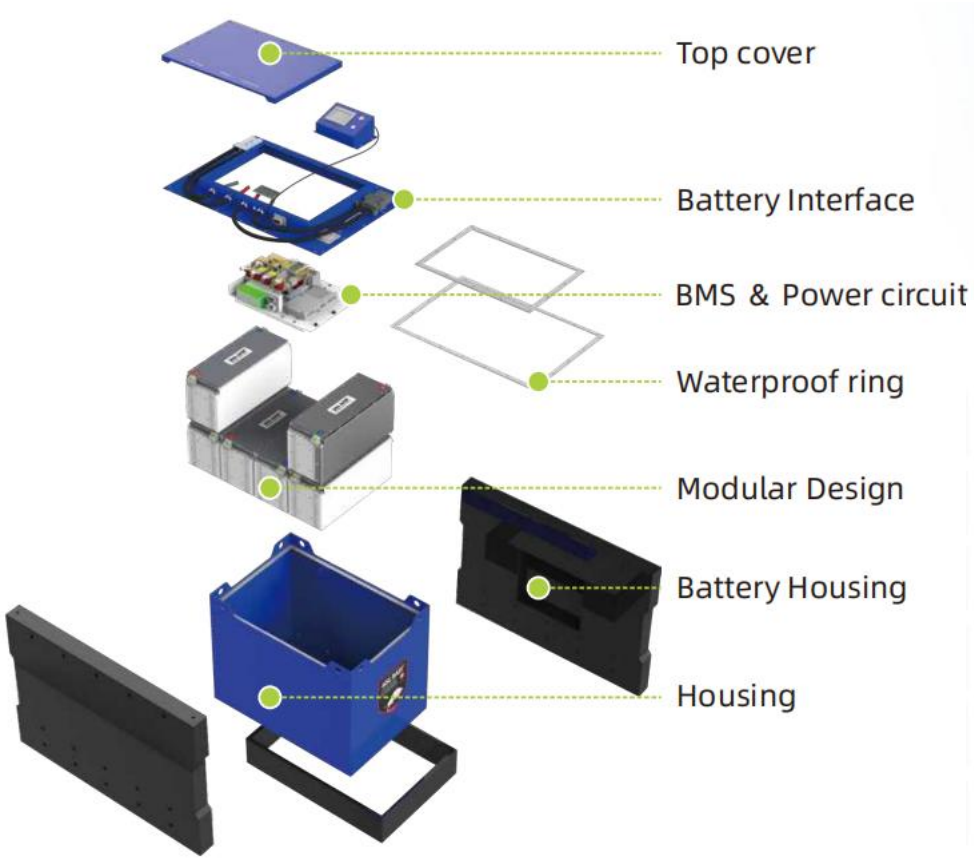

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Contact

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