

NATIONAL BATTERY SUPPLY

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 5416 W Sligh Ave. Suite 106 Tampa FL. 33634

OEM private label high energy density
and deep cycle battery manufacture.





YOUR TRUSTED LITHIUM BATTERY PARTNER



NBS (National Battery Supply)
www.nationalbatterysupply.com

Lithium Battery Technology

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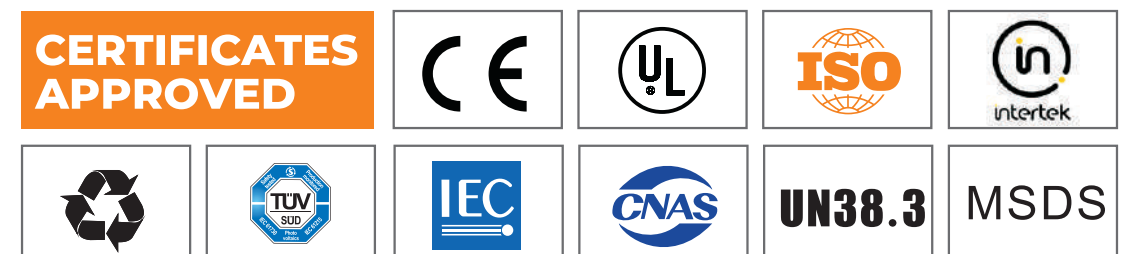
Company Brief Introduction

NBS is a professional manufacturer located in Huizhou City, near Shenzhen. It is a company that deeply focuses on all aspects of new energy and vehicle power storage systems, including design, research, development, manufacturing and sales.

Products include Cylindrical, Prismatic, Polymer batteries in Lithium Iron Phosphate and NCM Series. We are committed to providing High performance, High Quality, High cost effective product solutions with comprehensive life cycle service. Our lithium batteries are widely used in applications of marine, RV, Golf Cart, Energy storage system, telecom base station, forklift, floor scrubber and cranking.

As a new energy and high-tech corporation, NBS is increasing its investments on R&D, providing better technical solutions to meet increasing demands from customers and contributing green energy for better environment and convenience.

CERTIFICATE DISPLAY



NBS LiFePO4 Batteries Better for your golf carts



What you may be concerned about the golf carts batteries?

? What kind of battery should i put in my golf cart?

☑ We highly recommend the lifepo4 batteries for golf carts

THE ADVANTAGES OF LIFEPO4 BATTERY



LONG CYCLE LIFE

Up to 4000 cycles



LIGHT WEIGHT

Around 70% lighter
than lead acid batteries



ULTRA SAFE

High stability and safety



LOW SELF DISCHARGE

Self discharge
<3% per month



GOOD TEMP. PERFORMANCE

-20-65°C
-4-149°F



FREE MAINTENANCE

No daily maintenance
save work and cost

? Can it support high discharge current?good for climbing hills?

☑ Yes, built-in customized BMS. Support high discharge current
150A/200A/250A/300A optional, much powerful for your golf carts

? how can i monitor my golf cart batteries?

☑ By Bluetooth monitoring
Lithmate neutral Bluetooth APP or customized your own brand APP

? We are golf carts leasing companies, can we track the
carts via monitoring the batteries?

☑ Yes! GPS function highly recommended!

? How to charge my golf carts batteries?

☑ We can provide chargers specially designed for golf cart batteries

NBS LiFePO4 Batteries Better for your golf carts



- ✓ **10 YEARS**
BATTERY DESIGN LIFE
- ✓ **>4000**
CYCLES
- ✓ **ZERO**
MAINTENANCE
- ✓ **GPS**
- 📶 **Bluetooth**
- ✓ **5 YRS**
WARRANTY



- **36V/48V/72V System**
 - **Heating Function Optional**
 - **Customized BMS Solutions**
 - **High current 150A/200A/250A/300A**
 - **Customized internal/external display**
- Drive Longer!**



- HIGH EFFICIENCY**
 22A output current, high-efficiency performance for electricity savings and shorter charge time.
- HIGH RELIABILITY**
 IP66 Protection Level
 Aluminum Casting Shell
- SAFE PERFORMANCE**
 Input low-voltage & over-voltage protection, temperature protection
- Output short circuit/reverse polarity protection**
 Output over-current/over-voltage protection
 Automatic shutdown when fully charged

LiFePO4 Battery Specification for Golf Carts(OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy (KWH)	Dimension (L*W*H)	Weight KG(lbs)	Cycle Life	Mileage Per Full Charging	Standard Charge	Standard Discharge	Max Discharge	Quick Charge	Standard Charge	Self Discharge Per Month	Casing Material	IP Rating
36V															
NBS3650	38.4V	50Ah	1.92KWH	385*338*245mm	27KG(59.52lbs)	>4000 times	Up to 15-20 miles	22A	50A	200A	2.0h	5.0h	<3%	Steel	IP67
NBS36100		105Ah	4.032KWH	385*338*245mm	34KG(74.96lbs)	>4000 times	Up to 30-40 miles	22A	100A	200A	2.0h	5.0h	<3%	Steel	IP67
48V															
NBS4850	51.2V	50Ah	2.56KWH	416*334*232mm	35KG(77.16lbs)	>4000 times	Up to 20-30 miles	22A	50A	200A	2.0h	2.5h	<3%	Steel	IP67
NBS48105		105Ah	5.376KWH	472*334*243mm	43.6KG(96.12lbs)	>4000 times	Up to 40-50 miles	22A	250A	500A	2.5h	5.0h	<3%	Steel	IP67
NBS48160		160Ah	8.192KWH	827*330*232mm	72KG(158.73lbs)	>4000 times	Up to 60-70 miles	22A	250A	500A	3.0h	5.0h	<3%	Steel	IP67
72V															
NBS72105	73.6V	105Ah	7.728KWH	740*320*259mm	64KG(141.10lbs)	>4000 times	Up to 60-70 miles	15A	250A	500A	2.5h	7.0h	<3%	Steel	IP67
NBS72160		160Ah	11.77KWH	800*475*221mm	115KG(253.53lbs)	>4000 times	Up to 90-106miles	15A	250A	500A	3.0h	10.0h	<3%	Steel	IP67

NBS LiFePO4 Batteries For Marine Application

Safer, Longer, More Durable

LiFePO4 Batteries for Marine/Fishing Boat
12V/24V/36V/48V Motor System



Up to **10** Years
Battery Design Life

Up to **4000**
cycles

5 Years
Warranty

70%
Lighter than that of lead acid

Bluetooth Monitor



NBS provide you lighter weight, heavier power, safer and longer cycle life marine/boat batteries

- ✓ **Safety Guaranteed**
Built-in BMS Protection
- ✓ **More Power**
Full capacity, heavier power
- ✓ **Good Waterproof Level**
IP67 optional
- ✓ **Bluetooth Monitoring**
Lithmate Neutral APP or Customize your own brand APP

LiFePO4 Battery Specification for Marine(OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy (KWH)	Dimension (L*W*H)	Weight KG(lbs)	Cycle Life	Standard Charge	Standard Discharge	Max Discharge	Self Discharge Per Month	Casing Material	IP Rating
12V												
NBS12100	12.8V	100Ah	1.28KWH	328*171*215mm	12.45KG(27.45lbs)	>4000 times	50A	150A	300A	<3%	ABS	IP67
NBS12120		120Ah	1.536KWH	328*171*215mm	14.45KG(31.86lbs)	>4000 times	60A	150A	300A	<3%	ABS	IP67
NBS12200		200Ah	2.56KWH	525*240*220mm	25.65KG(56.55lbs)	>4000 times	100A	150A	300A	<3%	ABS	IP67
24V												
NBS24050	25.6V	50Ah	1.28KWH	328*171*215mm	12.75KG(28.11lbs)	>4000 times	25A	50A	100A	<3%	ABS	IP67
NBS24060		60Ah	1.536KWH	328*171*215mm	14.54KG(32.06lbs)	>4000 times	30A	60A	120A	<3%	ABS	IP67
NBS24100		100Ah	2.56KWH	525*240*220mm	27.55KG(60.74lbs)	>4000 times	50A	150A	300A	<3%	ABS	IP67
36V												
NBS36040	38.4V	40Ah	1.536KWH	328*171*215mm	14.5KG(31.97lbs)	>4000 times	20A	40A	80A	<3%	ABS	IP67
NBS36060		60Ah	2.304KWH	485*175*235mm	21.55KG(47.51lbs)	>4000 times	30A	60A	120A	<3%	ABS	IP67
NBS36080		80Ah	3.072KWH	525*270*220mm	31.5KG(69.45lbs)	>4000 times	40A	80A	160A	<3%	ABS	IP67
NBS36100		100Ah	3.840KWH	525*270*220mm	29.65KG(65.37lbs)	>4000 times	50A	150A	300A	<3%	ABS	IP67
48V												
NBS48400	51.2V	400Ah	21.5KWH	664.4*650*470.2mm	165KG(363.76lbs)	>4000 times	50A	150A	300A	<3%	Steel	IP67

Home Solar Energy Storage System

LiFePO4 Battery

- ✓ **Custom Colors**
Customized Metal Case Colors
- ✓ **Up to 15PCS in Parallel**
Max 15pcs in parallel for larger capacity



- ✓ **10 Years Battery Life**
Design life up to 10 years
- ✓ **Ultra Safe**
Built-in smart BMS protection
- ✓ **Full Capacity, More Power**
Support in parallel for larger capacity
- ✓ **High Compatibility**
Compatible with most of available Hybrid Inverters
- ✓ **Plug and play**
Easy installation and operation
- ✓ **Communication Port**
RS485/RS232/CAN

NBS Power Wall 5KWH

Rated Energy(kwh) 5120Wh	Rated Capacity 100Ah	Cell Type LFP(LiFePO4)
Cell Configuration 16S1P/15S1P	Rated Voltage 51.2V/48V	Max. Charge Current 100A
Max.Discharge Current 150A	Maximum Voltage 58.4V(16S1P)/54.75V (15S1P)	Max. Continuous Discharge Current(A) 100A
Display SOC/Voltage/Current	Communication RS485/RS232/CAN	Weight(KG) 50
Dimension(L*W*H)(mm) 630*400*170mm	Operating Temperature(°C) -20-65	Storage Temperature(°C) 0-45
Compatible Inverter Brand Most of PV Inverters in the market	Installation Location Wall-mounted	Colors Rose Gold, Green, Blue, Yellow, White, Brown

NBS Power Wall 10KWH

Rated Energy(kwh) 10240Wh	Rated Capacity 200Ah	Cell Type LFP(LiFePO4)
Cell Configuration 16S2P/15S2P	Rated Voltage 51.2V/48V	Max. Charge Current 100A
Max.Discharge Current 150A	Maximum Voltage 58.4V(16S2P)/54.75V (15S2P)	Max. Continuous Discharge Current(A) 100A
Display SOC/Voltage/Current	Communication RS485/RS232/CAN	Weight(KG) 90KG
Dimension(L*W*H)(mm) 654*400*240mm	Operating Temperature(°C) -20-65	Storage Temperature(°C) 0-45
Compatible Inverter Brand Most of PV Inverters in the market	Installation Location Wall-mounted	Colors Rose Gold, Green, Blue, Yellow, White, Brown

Residential Solar Energy Storage Battery



20KWH LiFePO4 Battery

- ✓ **10 Years Battery Life**
Design life up to 10 years
- ✓ **Modular Design**
5kwh modular design, flexible from 5kwh-20kwh
- ✓ **Built-in Inverter**
Built-in 5kwh inverter
- ✓ **Ultra Safe**
Built-in smart BMS protection
- ✓ **Smart Mobile Control**
Wifi Monitoring
- ✓ **Maintenance Free**
No Daily work cost

NBS 20KWH

Rated Energy(kwh) 20.48KWh	Rated Capacity 400Ah	Cell Type LFP(LiFePO4 3.2V100Ah)
Cell Configuration 16S4P	Rated Voltage 51.2V	Max. Charge Current 100A
Max.Discharge Current 150A	Maximum Voltage 58.4V	Max. Continuous Discharge Current(A) 100A
Display SOC/Voltage/Current	Communication RS485/RS232/CAN	Weight(KG) 225kg
Dimension(L*W*H)(mm) 690*470*1421	Operating Temperature(°C) -20-65	Storage Temperature(°C) 0-45
Private Label Print your own logo welcome!	Installation Location Ground-mounted	All in one Solution Yes, can provide complete system solution

Lithium Battery Technology



**Energy Storage Systems
Solar Power Supply**

The benefits to install energy storage system

1. Enhancing energy security
2. Make the most of power
3. Environmentally friendly
4. Reduce electricity bills, long term benefit

Why Choose NBS Energy Storage Battery

1. Safety Guaranteed
2. Long Cycle Life
3. High Compatibility with most PV inverters
4. Modular Design, Flexible to extend the capacity
5. All-in One Solution
6. Easy Installation and Operate



All in One Solution for Residential Energy Storage System



Solar Panels



LiFePO4 Battery



Inverter

Lithmate can provide the complete home solar energy storage systems, so it is convenient and save cost in shipping to get the whole system from us!

Starting LiFePO4 Batteries

- ✓ Bluetooth Monitoring
- ✓ Ultra Safe with Built-in BMS Protection
- ✓ Super Powerful--CCA1200
- ✓ Customized Voltage and Capacity
- ✓ 10 Years Battery Design Life



LiFePO4 CRANKING BATTERIES

Model	TECHNICAL SPECIFICATION					
	Nominal Voltage	Nominal Capacity	CELL TYPE	CCA	Dimension(L*W*H)	Weight(KG)
12V 100Ah	12.8V	105Ah	Prismatic	1200	318*175*190mm	12KG
12V 100Ah	12.8V	105Ah	Prismatic	1200	307*174*220mm	11.5KG
24V 100Ah	25.6V	105Ah	Prismatic	1300	525*240*220mm	20KG

NBS Telecom Base Station LiFePO4 Batteries

- ✔ Design life up to 10 years
- ✔ 5 Years Warranty
- ✔ RS485/RS232/CAN Communication Port
- ✔ 3U/5U
- ✔ Customized BMS Solutions
- ✔ Private logo welcome!



Features

- ✔ **Ultra Safe**
Built-in BMS protection
- ✔ **Free Maintenance**
Zero Maintenance, save cost in long term
- ✔ **Longer cycle life**
Up to 4000 cycles
- ✔ **Heavier Power**
Full Capacity, heavier power

LiFePO4 Battery 48V (OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy(KWH)	Dimension(L*W*H)	Weight(KG)	Charge Current	Discharge Current	IP Rating
48V								
NBS48050	51.2V	50Ah	2.56KWH	482.6*430.2*132.5mm	40KG	25A	50A	IP65
NBS48100	51.2V	100Ah	5.12KWH	482.6*555.2*177mm	55KG	50A	150A	IP65
NBS48200	51.2V	200Ah	10.24KWH	482.6*600.2*234mm	85KG	100A	150A	IP65

LiFePO4 Batteries For RV

- ✓ 10 Years Battery Design Life
- ✓ 5 Years Warranty
- ✚ Bluetooth Monitoring
- ✓ Heated Function Optional



• **Extremely Long cycle life**

The battery capacity is over 80% after 1C charge and discharge under 100% DOD condition for 3,500 cycles.

• **Lighter in weight**

Only 25% of the weight of an equivalent lead-acid battery.

• **Modular**

Easy to be extended in parallel or in series for higher capacity or higher voltage.

• **Ultra safe**

Built in intelligent BMS, protection from over charge, over discharge, over heated, short circuit, etc.

• **Free Maintenance**

Zero Maintenance, Save cost in long term

• **Eco-friendly**

Environment friendly, reduce the pollution.



LiFePO4 Battery Specification for RV(OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy	Dimension (L*W*H)	Weight	Cycle Life	Continuous Charge	Continuous Discharge	Max Discharge	Self Discharge Per Month	Casing Material	IP Rating
12V												
NBS12100	12.8V	100Ah	1.28KWH	328*171*215mm	12.45KG(27.45lbs)	>4000 times	50A	150A	300A	<3%	ABS	IP67
NBS12120	12.8V	120Ah	1.53KWH	328*171*215mm	14.45KG(31.86lbs)	>4000 times	60A	150A	300A	<3%	ABS	IP67
NBS12150	12.8V	150Ah	1.92KWH	485*175*235mm	19.31KG(42.57lbs)	>4000 times	80A	150A	300A	<3%	ABS	IP67
NBS12180	12.8V	180Ah	2.3KWH	485*175*235mm	22.15KG(48.83lbs)	>4000 times	90A	150A	300A	<3%	ABS	IP67
NBS12200	12.8V	200Ah	2.56KWH	525*240*220mm	25.65KG(56.55lbs)	>4000 times	100A	150A	300A	<3%	ABS	IP67

Longer, Safer, More Powerful Your Better Choice for Forklift Application



Zero
Maintenance

5 Years
Warranty

Up to
10 Years
Battery Life

Up to
4000
Cycles Life

Environmentally Friendly

Ecofriendly power

Ultra Safe

Built-in BMS Protection

Full Capacity

Heavier Power

Steady Output

More Stable Output than
Lead Acid Battery

Bluetooth

Mobile Phone APP Monitoring



LiFePO4 Forklift Batteries

Lithium Batteries Drop-in replacements for lead acid batteries

Keep your equipments powerful all day

Higher productivity

LiFePO4 Battery for Forklift(OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy	Dimension (L*W*H)	Weight	Continuous Charge	Continuous Discharge	Max Discharge	Charging Time	Casing Material	IP Rating
24V											
NBS24105	25.6V	105Ah	2.68KWH	650*200*540mm	26KG	50A	100A	200A	2.5h-3.5h	Steel	IP67
NBS24210		210Ah	5.37KWH	750*170*535mm	67.5KG	105A	210A	420A			
NBS24160		160Ah	4.09KWH	560*165*510mm	55KG	80A	160A	320A			
NBS24280		280Ah	7.16KWH	810*212*645mm	87KG	140A	280A	560A			
NBS24315		315Ah	8.06KWH	750*320*500mm	145KG	160A	315A	630A			
NBS24560		560Ah	14.33KWH	825*485*624mm	264KG	140A	560A	1120A			
36V											
NBS36210	38.4V	210Ah	8.06KWH	750*320*500mm	72KG	110A	210A	420A	2.5h-3.5h	Steel	IP67
NBS36280		280Ah	10.75KWH	666*465*345mm	222KG	140A	280A	560A			
NBS36315		315Ah	12.09KWH	988*689*635mm	108KG	160A	315A	630A			
NBS36420		420Ah	16.13KWH	836*829*635mm	144KG	210A	420A	840A			
36560		560Ah	21.50KWH	666*465*550mm	285KG	280A	560A	1120A			
48V											
NBS48210	51.2V	210Ah	10.75KWH	950*370*550mm	200KG	105A	210A	420A	2.5h-3.5h	Steel	IP67
NBS48280		280Ah	14.33KWH	800*520*450mm	210KG	140A	280A	560A			
48300		315Ah	16.12KWH	728*350*530mm	142KG	160A	315A	630A			
72V											
NBS72280	73.6V	280Ah	20.60KWH	666*465*550mm	183KG	140A	280A	560A	2.5h-3.5h	Steel	IP67
NBS72315		315Ah	23.18KWH	953*700*736mm	207KG	160A	315A	630A			
NBS72420		420Ah	30.91KWH	938*798*778mm	276KG	210A	420A	840A			
NBS72560		560Ah	41.21KWH	810*650*550mm	366KG	280A	560A	1120A			
80V											
NBS80280	80V	280Ah	22.40KWH	905*812*475mm	325KG	160A	315A	630A	2.5h-3.5h	Steel	IP67
NBS80420		420Ah	33.60KWH	815*740*635mm	435KG	210A	420A	840A			
NBS80560		560Ah	44.80KWH	1005*765*650mm	455KG	280A	560A	1120A			

Advanced Lithium Ion Technology Powerful Solutions for you

Grade A LiFePO4 Cells

Famous brand EVE Grade A Prismatic cell

Customized Battery solutions

Base on your requirements, custom your forklift battery

Customized BMS

Support Big Discharge current



Long-Lasting and Powerful

10 years design life
5years warranty
Free maintenance
Heavier power than lead acid batteries

Longer, Safer, more Durable NBS LiFePO4 Batteries

Your Better Choice for your Floor Cleaning Machines



- ✓ **24V/36V system**
- ✓ **0 maintenance**
- ✓ **Up to 4000 life cycles**
- ✓ **5 years warranty**
- ✳ **Bluetooth**



LiFePO4 Batteries for Floor Cleaning Machines



- **Ultra Safe**
Built-in intelligent BMS Protection
- **Durable**
Waterproof&dust proof, stable performance
- **Powerful**
Full Capacity, heavier power
- **Efficient**
Support fast charge, more productivity

Model	Nominal Voltage	Nominal Capacity	Energy (KWH)	Dimension (L*W*H)	Weight KG	Continuous Discharge	Max Discharge	Casing Material	IP Rating
24V									
NBS24080	25.6V	80Ah	2.048KWH	340*307*227mm	20KG	80A	160A	Steel	IP67
NBS24105		105Ah	2.688KWH	340*307*257mm	23KG	150A	300A		
NBS24160		160Ah	4.096KWH	488*350*225mm	36KG	150A	300A		
NBS24210		210Ah	5.376KWH	488*350*255mm	41KG	150A	300A		
NBS24315		315Ah	8.064KWH	600*350*264mm	60KG	150A	300A		
36V									
NBS36160	38.4V	160Ah	6.144KWH	600*350*226mm	50KG	150A	300A	Steel	IP67
NBS36210		210Ah	8.064KWH	600*350*264mm	60KG	150A	300A		

LiFePO4 Battery for Aerial Work Platforms

Built in Intelligent BMS

Ultra Safe with BMS Protection, Safer Performance

Bluetooth

Bluetooth Function Optional, Mobile APP Control

SOC Display

Battery Real-time SOC

Heating System Optional

With Heating Function, can work at Freezing Temperature



Lithium Battery Technology

Perfectly Design for Dropping in Replacement Lead Acid Batteries
Better Choice for Aerial Work Platforms

• **Longer Cycle LiFe**

Over 4000 Cycles, Longer Cycle LiFe than Lead Acid Batteries

• **5 Years Warranty**

After-Sales Gurranteed, Free Technical Support
 Provide 5 Years Warranty

• **More Powerful**

Full Capacity, Lighter weight, Heavier Power
 Strong, Durable, Powerful for Aerial Work

• **Free Maintenance**

Zero Maintenance, No Daily Maintenance
 Work, Saving Cost in Long term



LiFePO4 Battery Specification for Aerial Work Platform(OEM/ODM Acceptable!)

Model	Nominal Voltage	Nominal Capacity	Energy (KWH)	Dimension (L*W*H)	Weight KG	Cycle Life	Standard Charge	Standard Discharge	Max Discharge	Self Discharge Per Month	Casing Material	IP Rating
NBS24105	25.6V	105Ah	2.688KWH	448*244*261mm	30KG	>4000 times	50A	150A	300A	<3%	Steel	IP67
NBS48105	51.2V	105Ah	5.376KWH	472*334*243mm	45KG	>4000 times	50A	150A	300A	<3%	Steel	IP67
NBS48280	51.2V	280Ah	14.336KWH	722*415*250mm	105KG	>4000 times	100A	150A	300A	<3%	Steel	IP67

ABOUT US

- 1. 16Years+lithium battery experience
- 2. All from China Top 3 Companies like BYD,CATL,HUAWEI
- 3. Your professional, strong, trusted partners in Motive Power Battery solutions, energy storage solutions and lithium iron phosphate replacing lead acid batteries
- 4. More than 100 Patents in BMS, Module, PCB Struture, etc.



- 1) Rich R&D Experience
- 2) Advanced Lithium Battery Solutions
- 3) Automatic Production
- 4) Complete QC and Testing System
- 5) Pass ISO9001







We have ability and confidence to help you achieve your idea of the battery solutions!



PRODUCT CASE



COMPANY ADVANTAGE

 <p>Over 16 years industry experience</p>	 <p>Professional R&D and Sales Team</p>	 <p>OEM & ODM Acceptable</p>
 <p>Reliable Product Quality</p>	 <p>Fast Lead Time</p>	 <p>Aftet-sales Service Guarantee</p>

Choose Lithmate, We Provide You A Satisfying Solution



WE LOOK FORWARD TO HEARING FROM **YOU!**

 844-539-2555 (Toll Free)  Sales@NationalBatterySupply.com

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OEM private label high energy density
and deep cycle battery manufacture.

