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LiFePO₄ Batteries

for Trolling Motors & Fish Finders

Power steadily,
fishing freely!



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ROYPOW LiFePO₄ batteries



VS

Old technology - Lead-acid batteries



Stable discharge condition	Low temperature condition	Unstable discharge condition
3,500 times	Cycle life	<500 times
Around 10 years	Design life	3 years
As little as 3.5 hours	Charging time	Up to 8 hours
No memory, opportunity charge	Charge frequency	Must charge after use
Multiple built-in protections, high thermal and chemical stability	Safety	Gas inside may cause explosion
85% or more nominal capacity achieved at high working load	Available capacity	Only 30%~50% nominal capacity achieved under high working load
Maintenance-free	Maintenance	Regular water-adding and inspection required
Pollution-free	Eco-friendly	Lead is a toxic substance, may cause human lead poisoning
Extremely low	Energy loss	15%

Li-ion Batteries Power Your Trolling Motors with Exceptional Value.

With ROYPOW advanced lithium iron phosphate (LiFePO₄) technology, the batteries deliver stronger power, lighter weight, and last 3 times longer than lead-acid batteries – providing exceptional value to your trolling motors.

Comparison of 5 Years' Expenses

ROYPOW LiFePO₄ Batteries Lead-acid Batteries



↓	Shipping	↑
↓	Installation	↑
×	Maintenance	✓
×	Internal Energy Loss	✓

Up to
10yr
Design life

0
Maintenance

Up to
3,500+
Cycle life

5yr
Warranty

70% With ROYPOW LiFePO₄ Battery Expenses Can be Saved in 5 Years.

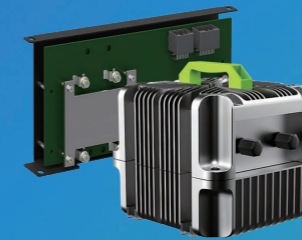
Why Choose ROYPOW Trolling Motor Energy Solutions

Power your freedom & indulge your interest. You can fish freely, withstanding the gale and waves.



Smart Batteries

We design and manufacture integrated smart trolling motor energy systems that span all aspects of the business, from electronics and software design to module and battery assembly and testing. Our strong and safe batteries can persistently keep your passion for fishing on the trolling motors.



Smart Solutions

We provide solutions with cutting-edge technology to create batteries with intelligence, digitization and energy. Furthermore, ROYPOW original chargers bring the optimal charging and better performance of our advanced lithium-ion batteries.

Smart Services

The modular design of our lithium-ion batteries can be tailored to customer needs. The modular concept enables us to tailor every requirement individually.



ROYPOW

You can Focus on Chasing a Fish. Easing Your Mind is a Plus.

You can tell just by looking at our batteries. They are robust and resistant to extreme weather conditions. And installation is so easy that we'd like to refer to it as "plug & use". The specially designed mounting holes bring an easy and quick installation and are resistant to shock & vibration. Compatible with most leading brands of trolling motors.

Trolling Motor Batteries



Plug & Use Simple, Reliable and Powerful

12 V / 50 Ah, 12 V / 100 Ah, 24 V / 50 Ah, 24 V / 100 Ah, 36 V / 100 Ah

Long Life

Our batteries have a 10-year design life.

Zero Maintenance

No watering, no acid, no corrosions.

Weight Saving

Easier to maneuver your boat & change directions.

Waterproof & Corrosion Protection

Resistant to some extreme conditions.

Bluetooth

Monitor your battery from your mobile phone anytime via Bluetooth connectivity!

Self-heating Function

Higher tolerance to cold weather when charging.

Fast Charge

The batteries can stay on board the equipment for charging.

Endure Power

Help to withstand 15+mph wind speed & support spot-lock fishing all day.

All-weather Batteries

They can work well in cold or high temperatures. Much wider than the lead-acid batteries can withstand.

Wi-Fi Connection Everywhere (Optional)

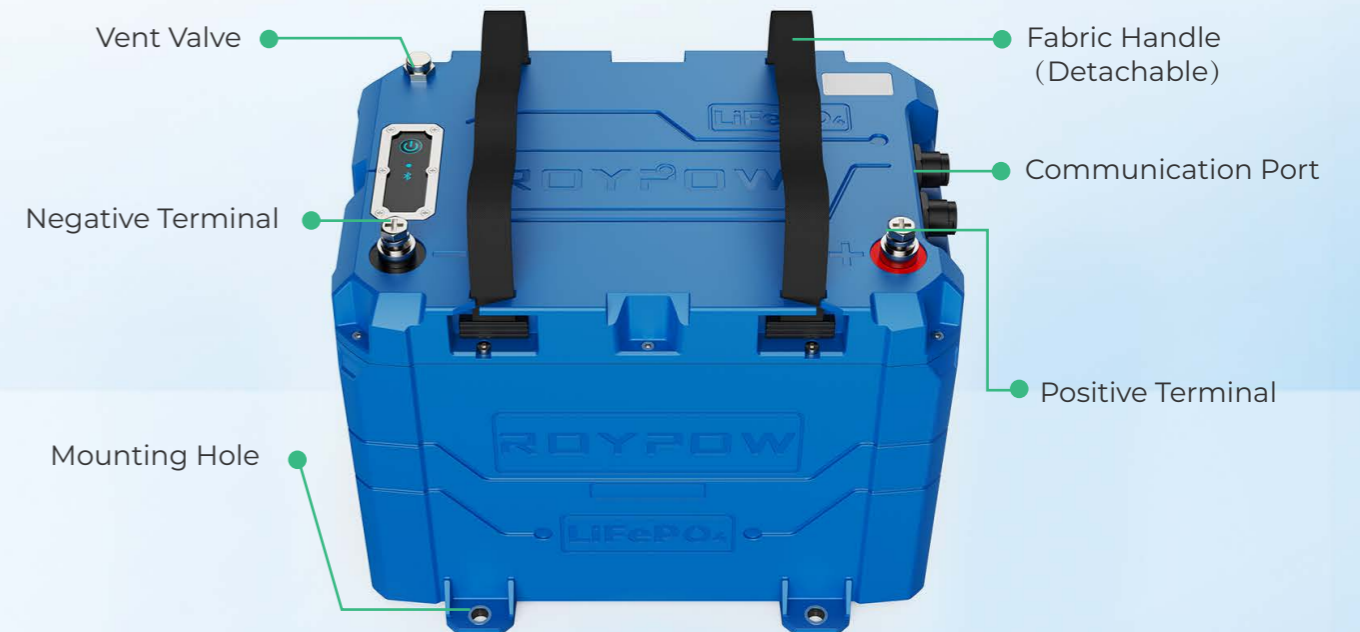
No network signals while fishing in the wild? No worries! Our battery has a built-in wireless data terminal which can automatically switch to available network operators globally.



Specifications

Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Dimensions (L*W*H)	Weight lbs. (kg)	Continuous Discharge Current	Peak Discharge Current	Casing Material	IP Rating
12 V System									
B1250A	12.8 V	50 Ah	0.64 kWh	13.2×10.2×10.2 inch (335.8×260×260.5 mm)	22 lbs. (10 kg)	80 A	120 A (10 S)	PC + ABS	IP67
B12100A		100 Ah	1.28 kWh	13.2×10.2×10.2 inch (335.8×260×260.5 mm)	33.1 lbs. (15 kg)	100 A	150 A (10 s)		
24 V System									
B2450A	25.6 V	50 Ah	1.28 kWh	13.2×10.2×10.2 inch (335.8×260×260.5 mm)	30.8 lbs. (14 kg)	80 A	120 A (10 s)	PC + ABS	IP67
B24100H B24100HA		100 Ah	2.56 kWh	13.2×10.2×10.3 inch (335.8×260×260.5 mm)	48.5 lbs. (22 kg)	120 A	200 A (10 s)		
36 V System									
B3650H B3650HA	38.4 V	50 Ah	1.92 kWh	19.8×10.2×10.2 inch (503.8×260×260 mm)	59.5 lbs. (22.5 kg)	120 A	200 A (10 s)	PC + ABS	IP67
B36100H B36100HA		100 Ah	3.84 kWh	19.8×10.2×10.2 inch (503.8×260×260 mm)	75.0 lbs. (34 kg)	120 A	200 A (10 s)		
Working Temperature Range		Charge		Discharge		Storage (1 month)		Storage (1 year)	
		-4°F~131°F (-20°C ~ 55°C)		-4°F~131°F (-20°C ~ 55°C)		-4°F~131°F (-20°C ~ 55°C)		32°F~95°F (0°C~35°C)	

1. All pictures shown are for reference only and data are based on ROYPOW standard test procedures.
2. Actual performance may vary according to local conditions. Only authorized personnel are allowed to operate or make adjustments to the batteries.
3. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice.



A Simple but Endure Energy Supply for Your Fish Finders.

Fish Finder Batteries

You can immerse yourself in fishing without the hassle of sudden power sagging.

LiFePO₄ batteries can fit well and are easy to install while offering high-energy density. We are committed to revolutionizing the old industry technology. With no modifications required, they can withstand power demands. The F2 standard terminal (6.35mm/0.25" wide) design, among other features, makes them the ideal drop-in replacements for lead-acid, AGM, or Gel batteries.



**Less is More,
Simplicity, Endurability &
Drop-in Replacements.**

12 V 8 Ah / 12 Ah / 16 Ah / 24 Ah

Compatible with Many Applications



Powered wheelchair



Ride on car for kids



Camping



Fish finder



Kayaks



More

High-quality Power Supply with First-class Comfort

With automotive-grade components, LiFePO₄ batteries can power your fish finders with an uninterrupted power supply, delivering you a marvelous fishing time.

- Long-life**
About 3 times longer design life than lead-acid batteries.
- Enduring power**
The power will not dramatically sag like lead-acid batteries.
- Fast charge**
As little as 2.5 hours.
- No modification**
Easy to install and drop-in replacements.
- No maintenance**
No acid, no corrosions, no watering, no need to clean the acid deposits.
- Light-weight**
Only 25% weight of an equivalent lead-acid battery.
- Built-in BMS**
Your batteries can reach peak performance from real-time monitoring, remote diagnosing and upgrading, and all-time cell balancing management.
- Clean energy**
No harm to you & the environment.
- Waterproof**
Work well in some extreme weathers.



Specifications

Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Dimensions (L*W*H)	Weight lbs. (kg)	Continuous Discharge Current	Peak Discharge Current	Casing Material	IP Rating
B1208A	12.8 V	8 Ah	0.1024 kWh	151×65×94.5 mm (6.0×2.6×3.7 inch)	1 kg (2.2 lbs)	8 A	16 A	Plastic	IP65
B1212A	12.8 V	12 Ah	0.1536 kWh	151×98.5×96.5 mm (6.0×3.9×3.8 inch)	1.5 kg (3.3 lbs)	12 A	24 A		
B1216A	12.8 V	16 Ah	0.2048 kWh	181×76×168 mm (7.1×3.0×6.6 inch)	2.2 kg (4.9 lbs)	16 A	36 A		
B1224A	12.8 V	24 Ah	0.3072 kWh	195×130×163 mm (7.7×5.1×6.4 inch)	3.2 kg (7.1 lbs)	24 A	48 A		

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Specifications

Model	Charge Voltage	Charge Current	Dimension (for Reference)	Weight (for Reference)	Casing Material	IP Rating
12 V System						
Charger for B1250A	16 V	25 A	282×166×100 mm (11.1×6.5×3.9 inch)	4 kg (8.8 lbs.)	AL	IP66
Charger for B12100A	16 V	30 A				
24 V System						
Charger for B24100H	29 V	30 A	282×166×100 mm (11.1×6.5×3.9 inch)	4 kg (8.8 lbs.)	AL	IP66
Charger for B24100V	29 V	30 A				
36 V System						
Charger for B36100H	29 V	30 A	282×166×100 mm (11.1×6.5×3.9 inch)	4 kg (8.8 lbs.)	AL	IP66
Charger for B36100V	42 V	13 A				

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Plugging In and Charging As You Like

All trolling motor lithium batteries from ROYPOW should be charged with the original charger. The chargers enable better performance and longer life of the batteries, which can reach the optimal charging performance.



ROYPOW Charger
16 V / 25 A, 16 V / 30 A,
29 V / 30 A, 42 V / 13 A

- Intelligent Protection**
With the function of preventing hot unplugging & plug-in and arc discharge.
- Easy to Upgrade**
You can upgrade the charger offline through the USB ports.
- Battery Sleep Preventer**
When batteries are in a dormant state, they can be activated if the chargers are connecting the grid.

- Temperature Detection**
ROYPOW batteries with the original charger can detect the battery temperature, which can protect the batteries intelligently.
- BMS Communication**
Enable it to communicate with the battery through CAN.
- Anti-walking Function**
It can prevent your applications from a sudden moving or starting during charging.



12 V trickle charger
3 A battery maintainer



12 V charger
10 A battery maintainer

B1208A, B1212A	Chargers for fish finders	B1216A, B1224A
210.6x129x51 mm (9.29 x 5.08 x 2.01 inch)	Package dimensions (for reference)	210.6x129x51 mm (9.29 x 5.08 x 2.01 inch)
0.4 kg (0.89 lbs)	Weight (including package) (for reference)	0.4 kg (0.89 lbs)
14.4 V (DC)	Output voltage	14.4 V (DC)
110 V - 240 V (AC)	Input voltage	110 V - 240 V (AC)
3 A	Current rating	10 A
Including alligator clamp and ring terminal	Components	Including alligator clamp and ring terminal

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- LiFePO₄ battery chargers**
Both the 3 A and 10 A chargers are specially designed for 12 V LiFePO₄ batteries to achieve optimal performance and extend a longer battery life.
- Easy to use**
You will get battery chargers, M6 terminals, battery clamps and a user manual.

- Safe & reliable**
The LiFePO₄ batteries have very high thermal and chemical stability. Support multiple built-in protections, including over charge, over discharge, over heating and short circuit protection.
- Charge dead batteries**
Even though the batteries are over-discharging and drop down to 1V, the chargers can wake up the sleep batteries, bringing them back to life.

Note: Our chargers are compatible with several types of electrical outlet plugs in use worldwide, like American standards, English standards, Euro standards.



12 V, 3 A / 10 A

ROYPOW, Your Trusted Partner

For One-stop Energy Solutions

ROYPOW TECHNOLOGY is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

With more than 20 years of combined experience in manufacturing renewable energy and battery systems, ROYPOW provides Lithium-ion Batteries covering most daily living and working environments: Low-Speed Vehicles such as Golf Carts, Personnel Carriers; Industrial Batteries for use in Material Handling Equipment such as Forklifts, Aerial Work Platforms and Floor Cleaning Machines as well as renewable Energy Storage Systems for Residential, Commercial, Industrial, Vehicle-mounted and Marine applications.

ROYPOW has established a worldwide network to serve customers with a manufacturing center in China and subsidiaries in the USA, the UK, Germany, Europe, South Africa, Australia, and Japan to date. ROYPOW owns and operates fully automatic production lines, a full range of test equipment and an advanced MES that collectively address all aspects of its manufacturing process, from electronics, software design to module assembly, battery assembly as well as initial and final testing.

As a renewable energy innovator, ROYPOW is committed to the mission of achieving energy sustainability while creating a better life for human beings.



R&D and Manufacturing Highlights

ROYPOW is capable of "end-to-end" integrated delivery, which make our products outperform typical industry norms.

- All-around testing.
- Integrated design.
- Advanced MES system.
- IATF 16949 automotive quality management system certification
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO12405-2 vibration performance and safety testing of automotive lithium batteries

Global Sales and Service Network System

- Timely Delivery.
- Hassle-free After-sales Service.
- Fast Response Technical Support.

ROYPOW has comprehensively unfolded its overseas market layout to realize the localization of R&D, manufacturing, marketing and service, then become your most reliable partner.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- ✓ **Low-speed Vehicle Batteries** including golf carts and sightseeing cars;
- ✓ **Industrial Batteries** including forklifts, aerial work platforms and floor cleaning machines;
- ✓ **Residential Energy Storage Systems & Portable Power Units** including home storage and portable energy storage products, as well as off-grid energy storage (for forest cabin, island villa without electricity, etc.);
- ✓ **Vehicle-Mounted Energy Storage Systems** including RV and truck energy storage and air conditioning system, as well as off-grid solar system for RV;
- ✓ **Marine Energy Storage Systems & Batteries** including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power system;
- ✓ **Chargers** for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.

