

ROYPOW TECHNOLOGY CO., LTD. has a policy of improving products continuously. All the information in this catalogue is provided for reference only. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice. Trademarks are the property of ROYPOW TECHNOLOGY CO., LTD. or their respective owners.

Version: February 26, 2025, Trolling Motors & Fish Finders



# LiFePO<sub>4</sub> Batteries

## for Trolling Motors & Fish Finders

Power steadily,  
fishing freely!



### ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

Email: [sales@roypow.com](mailto:sales@roypow.com)  
[service@roypow.com](mailto:service@roypow.com)  
[marketing@roypow.com](mailto:marketing@roypow.com)

Web: [www.roypow.com](http://www.roypow.com)

Add: ROYPOW Industrial Park, No.16, Dongsheng South Road,  
Chenjiang Street, Zhongkai High-Tech District, Huizhou City,  
Guangdong Province, China

### ROYPOW (USA) Technology Co., Ltd.

Tel: +1 512 688 5555 (Texas Office)

Email: [sales@roypowusa.com](mailto:sales@roypowusa.com)  
[service@roypowusa.com](mailto:service@roypowusa.com)

Web: [www.roypow.com](http://www.roypow.com)

Head Office: 5901 Triumph St, Commerce, CA 90040, USA

Texas Office: 2350 Campbell Creek Blvd #100 Richardson, TX 75082, USA

Florida Office: 277 Douglas Avenue, Unit 1004, Altamonte Springs, FL 32714, USA

Indiana Office: 5545 W Raymond St, Ste H Indianapolis, IN 46241, USA

Georgia Office: 1150 Cobb International PI NW Ste E, Kennesaw, GA 30152, USA

### ROYPOW Technology UK Limited

Tel: +44 (0) 7918 955 940

Email: [sales.uk@roypow.com](mailto:sales.uk@roypow.com)

Add: Regus Green Park, 200 Brook Dr, Reading RG2 6UB, UK

### ROYPOW Battery Technology (Pty) Ltd

Email: [sales.za@roypow.com](mailto:sales.za@roypow.com)

Tel: +27 69 89 5555

Add: 53 Lake Rd, Longmeadow Business Estate, Edenvale, 1609, South Africa



### ROYPOW (Europe) Technology B.V.

Email: [sales.eu@roypow.com](mailto:sales.eu@roypow.com)

Tel: +31 702 001 114

Web: [www.roypoweuropa.com](http://www.roypoweuropa.com)

Add: K.P. van der Mandelelaan 84, 3062 MB Rotterdam,  
The Netherlands

### ROYPOW Australia Technology Pty Ltd

Email: [sales@roypowtech.com.au](mailto:sales@roypowtech.com.au)

Tel: +61 29185 0814

Web: [www.roypowtech.com.au](http://www.roypowtech.com.au)

Add: Suite 803a, 18 Orion Road, Lane Cove, NSW, 2066, Australia

### ROYPOW Technology GmbH

Tel: +49 (0) 176 2358 8956

Email: [sales.de@roypow.com](mailto:sales.de@roypow.com)

Web: [www.roypow.gmbh](http://www.roypow.gmbh)

Add: Rosa-Parks-Straße 4, 64295 Darmstadt, Germany

### ROYPOW株式会社

Tel: +81 090 7092 6969

Email: [info@roypow.co.jp](mailto:info@roypow.co.jp)

Web: [www.roypow.co.jp](http://www.roypow.co.jp)

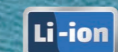
Add: 〒271-0094 千葉県松戸市上矢切299-7

### ROYPOW Technology Co., Ltd (Korea)

Tel: 1555-2016

Email: [sales.kr@roypow.com](mailto:sales.kr@roypow.com)

Add: 2405, GIDC Gwangmyeong station A Dong, 43 Iljik-ro,  
Gwangmyeong-si, Gyeonggi-do, Korea



[sales@roypow.com](mailto:sales@roypow.com)  
[www.roypow.com](http://www.roypow.com)



# ROYPOW

## For One-stop New Energy Solutions

- R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- Covering Low-Speed Vehicles' Batteries, Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, and EMS



**750+** Employees  
**190+** R&D People  
**105,000 m<sup>2</sup>** Headquarters Floor Area  
**2,500 m<sup>2</sup>** Testing Center  
**231** Patents

### Quality Control Certificates:

- ✓ Environmental Management System: ISO 14001:2015
- ✓ Occupational Health and Safety Management System: ISO 45001:2018
- ✓ Quality Management System: ISO 9001:2015, IATF16949:2016
- ✓ Information Security Management System: ISO/IEC 27001:2022
- ✓ Social Accountability Management System: SA8000:2014
- ✓ Hazardous Substance Process Management: IECQ QC 080000

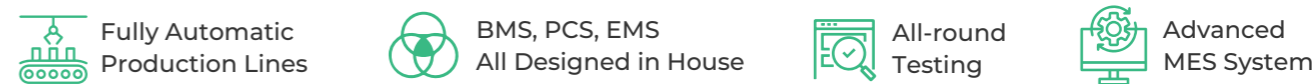


### Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741			FCC, IEC/EN 61000-6, BS EN IEC 61000-6
IEEE 1547			IEC 60730, ISO 13849-1
IEC 62619			UN 38.3
EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2			RoHS Directive 2011/65/EU & (EU) 2015/863

### R&D and Manufacturing Highlights

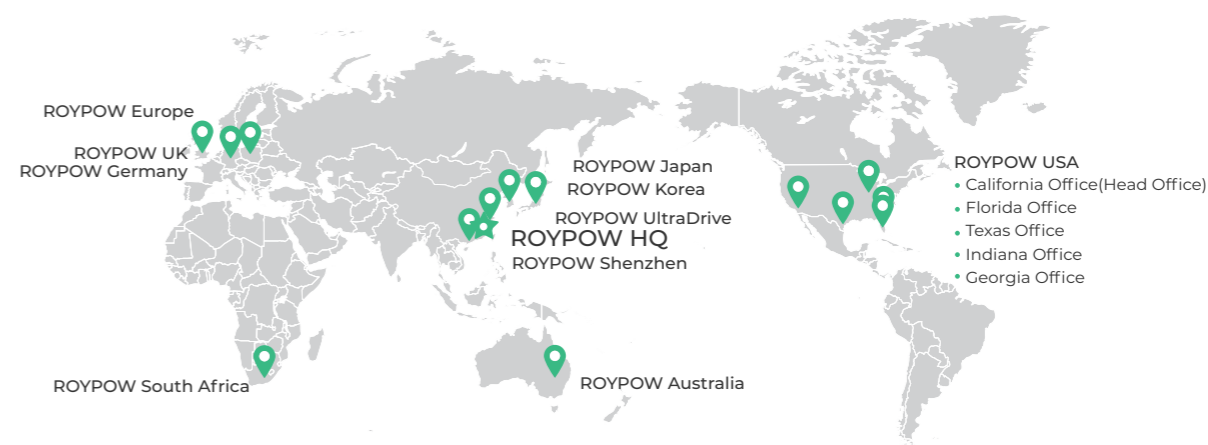
As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.



### Global Sales and Service Network



ROYPOW has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



### 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
- Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- Mobile Energy Storage Systems
- Industrial Batteries
- Battery Systems for Emerging Applications
- Commercial & Industrial Energy Storage Systems
- Motors, Controllers and Chargers



## ROYPOW LiFePO<sub>4</sub> 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 (LiFePO<sub>4</sub>) 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 LiFePO<sub>4</sub> 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 LiFePO<sub>4</sub> Battery Expenses Can be Saved in 5 Years.

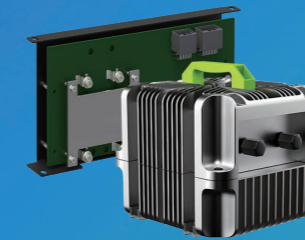
## Why Choose ROYPOW Trolling Motor Energy Solutions

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.



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

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

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.



*Plug & Use  
Simple, Reliable and Powerful*



- 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!

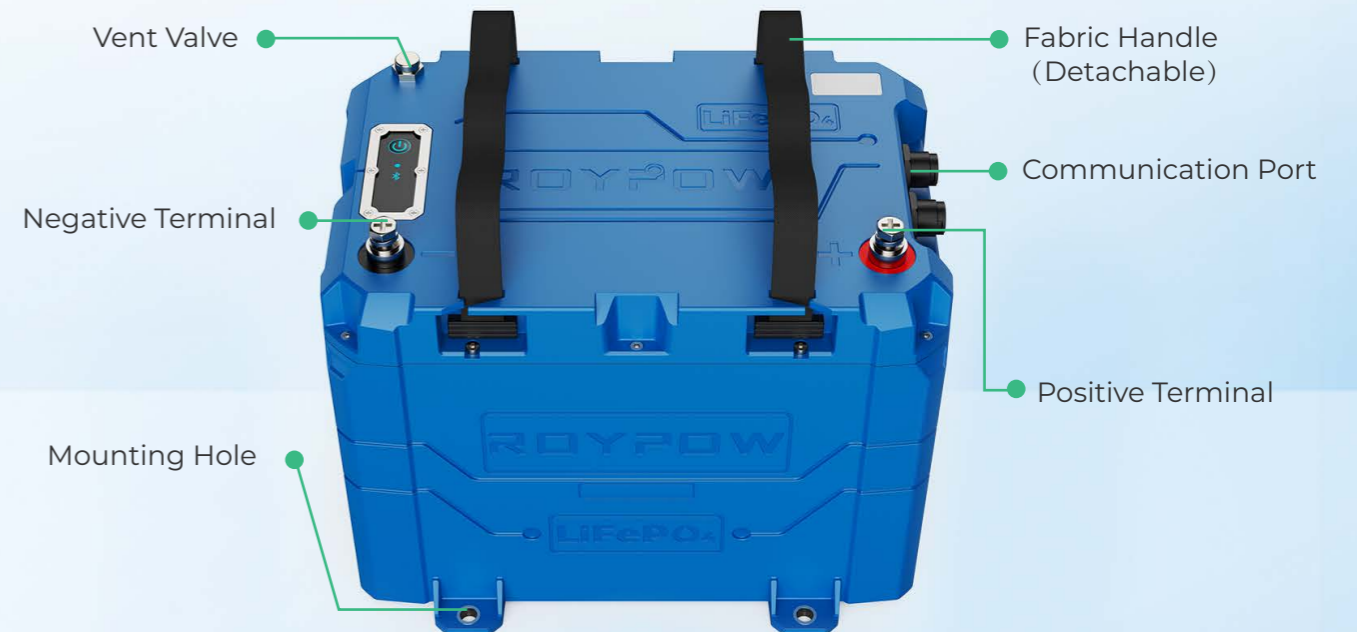
- Self-heating Function**  
Higher tolerance to cold weather when charging.
- Fast Charge**  
The batteries can stay on board the equipment for charging.
- Endure Power**  
Help to withstand 15+mph wind speed & support spot-lock fishing all day.
- All-weather Batteries**  
They can work well in cold 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
<b>12 V System</b>									
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)	120 A	150 A (10 s)		
B12200A		200 Ah	≥2.56 kWh	13.22 x 10.24 x 10.26 (335.8 x 260 x 260.5 mm)	48.50±1.1 lbs (22±0.5 kg)	120 A	200 A (60 S)		
<b>24 V System</b>									
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)		
<b>36 V System</b>									
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)		
<b>Working Temperature Range</b>		<b>Charge</b>		<b>Discharge</b>		<b>Storage (1 month)</b>		<b>Storage (1 year)</b>	
		-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. These batteries are designed and manufactured according to key international standards.  
 4. 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.

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

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

LiFePO<sub>4</sub> 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.*

### Compatible with Many Applications



Powered wheelchair



Ride on car for kids



Camping



Fish finder









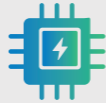


Kayaks



More

## High-quality Power Supply with First-class Comfort

With automotive-grade components, LiFePO<sub>4</sub> batteries can power your fish finders with an uninterrupted power supply, delivering you a marvelous fishing time.

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

### 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		

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.



## Specifications

Model	Charge Voltage	Charge Current	Dimension (for Reference)	Weight (for Reference)	Casing Material	IP Rating
<b>12 V System</b>						
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				
<b>24 V System</b>						
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				
<b>36 V System</b>						
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				

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.

## 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.

### Intelligent Protection

With the function of preventing hot unplugging & plug-in and arc discharge.

### Temperature Detection

ROYPOW batteries with the original charger can detect the battery temperature, which can protect the batteries intelligently.

### Easy to Upgrade

You can upgrade the charger offline through the USB ports.

### BMS Communication

Enable it to communicate with the battery through CAN.

### Battery Sleep Preventer

When batteries are in a dormant state, they can be activated if the chargers are connecting the grid.

### 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)	<b>Package dimensions (for reference)</b>	210.6x129x51 mm (9.29 x 5.08 x 2.01 inch)
0.4 kg (0.89 lbs)	<b>Weight (including package) (for reference)</b>	0.4 kg (0.89 lbs)
14.4 V (DC)	<b>Output voltage</b>	14.4 V (DC)
110 V - 240 V (AC)	<b>Input voltage</b>	110 V - 240 V (AC)
3 A	<b>Current rating</b>	10 A
Including alligator clamp and ring terminal	<b>Components</b>	Including alligator clamp and ring terminal

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.



### LiFePO<sub>4</sub> battery chargers

Both the 3 A and 10 A chargers are specially designed for 12 V LiFePO<sub>4</sub> batteries to achieve optimal performance and extend a longer battery life.



### Safe & reliable

The LiFePO<sub>4</sub> batteries have very high thermal and chemical stability. Support multiple built-in protections, including over charge, over discharge, over heating and short circuit protection.



### Easy to use

You will get battery chargers, M6 terminals, battery clamps and a user manual.



### Charge dead batteries

Even though the batteries are over-discharging and drop down to 1 V, 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.

