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**RoyPow**<sup>®</sup>  
Get powered. Get inspired

LI-ION  
technology

# LiFePO<sub>4</sub> battery for trolling motors & fish finders

## Power steadily, fishing freely!



## 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%

### Comparison of 5 years' expenses

RoyPow LiFePO<sub>4</sub> batteries

Lead-acid batteries



↓ shipping

↑

↓ installation

↑

× maintenance

✓

× internal energy loss

✓

**70%** With RoyPow LiFePO<sub>4</sub> battery expenses can be saved in 5 years.

### 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.

Up to  
**10<sub>yr</sub>**  
Design life

Up to  
**3,500+**  
Life cycles

in 5 years  
**70%**  
Expense saving

**5<sub>yr</sub>**  
Warranty

## 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. With our strong and safe batteries, they can persistently keep your trolling motors in passion.



### 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

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



# Trolling motor batteries

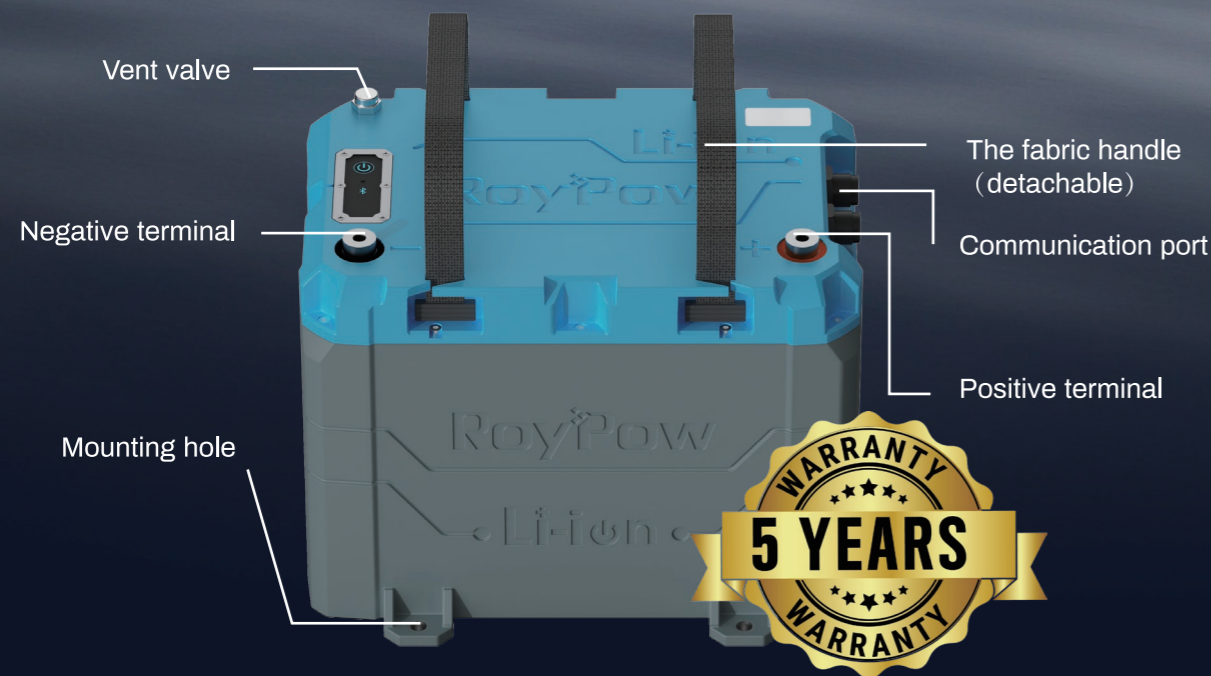
12V/50Ah 12V/100Ah  
24V/50Ah 24V/100Ah 36V/100Ah

We offer systems for voltage of 12V, 24V, 36V with capacities of 50Ah, 100Ah.

**Plug & use**  
simple, reliable and powerful

You can focus on chasing a fish.  
Ease 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. Compatible for most leading brands of trolling motors.



**RoyPow**  
Get powered. Get inspired

## Ideal for your trolling motors

Ideal for trolling motors no matter you are in saltwater or freshwater environments, and enable a long time fishing with lots of power.

-  **Long life**  
Our batteries have a 10-year design life.
-  **Zero maintenance**  
No watering, no acid, no corrosions.
-  **Drop-in replacements**  
Easy installation for replacing lead-acid batteries.
-  **Waterproof & corrosion protection**  
Resistant to some extreme conditions.
-  **WiFi connection everywhere (Optional)**  
No network signals while fishing in the wild? No worries! Our battery has built-in wireless data terminal which can automatically switch to available network operators globally.
-  **5 years warranty**  
Valuing much for your investments.
-  **Fast charge**  
The batteries can stay on board the equipment for charging.
-  **Endure power**  
Easily power your trolling motors much longer.
-  **All-weather batteries**  
They can work well in cold or high temperatures. Much wider than the lead-acid batteries can withstand.
-  **Bluetooth**  
Monitoring your battery from your mobile phone anytime via Bluetooth connectivity!



### Technical specifications

Model	Nominal voltage	Nominal capacity	Stored energy	Dimension (for reference)	Weight (for reference)	Continuous charge	Continuous discharge	Surge discharge	IP rating
B12100A	12.8 V	100 Ah	1.28 kWh	307×168×226 mm (12×6.6×8.9 inch)	15 kg (33.07 lbs)	30 A	100 A	150 A (10 s)	IP65
B1250A	12.8 V	50 Ah	0.64 kWh	307×168×226 mm (12×6.6×8.9 inch)	9.44 kg (20.81 lbs)	30 A	80 A	120 A (10 s)	
B2450A	25.6 V	50 Ah	1.28 kWh	307×168×226 mm (12×6.6×8.9 inch)	15 kg (33.1 lbs)	30 A	80 A	120 A (10 s)	
B24100V	25.6 V	100 Ah	2.56 kWh	520×168×260 mm (20.5×6.6×10.2 inch)	22 kg (48.50 lbs)	50 A	120 A	200 A (10 s)	IP67
B24100H	25.6 V	100 Ah	2.56 kWh	335.8×260×260.5 mm (13.2×10.2×10.3 inch)	22 kg (48.50 lbs)	50 A	120 A	200 A (10 s)	
B36100V	38.4 V	100 Ah	3.84 kWh	780×168×260 mm (30.7×6.6×10.2 inch)	34 kg (74.96 lbs)	50 A	120 A	200 A (10 s)	
B36100H	38.4 V	100 Ah	3.84 kWh	503.8×260×260 mm (19.8×10.2×10.2 inch)	34 kg (74.96 lbs)	50 A	120 A	200 A (10 s)	

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.  
2. All data are based on RoyPow standard test procedures. Actual performance may vary according to local conditions.

# Fish finder batteries

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

A simple but endure energy supply for your fish finders.

## Less is more

simplicity, durability & drop-in replacements

You can soak yourself in fishing, without sudden power sagging hassles.



## Compact & light weight

LiFePO<sub>4</sub> batteries can fit well and easy to install, but with high energy density. We are committed to overthrowing the old industry technology. No modification, endure power, the F2 standard terminal (6.35mm/0.25" wide) design and so on, make them to be the ideal drop-in replacements for lead-acid, AGM, or Gel batteries.

## Compatible for many applications



powered wheelchair



ride on car for kids



camping



fish finder



kayaks



more



# High-quality power supply with first-class comfort

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



### Long-life

About 3 times of longer design life than lead-acid batteries.



### Endure power

The power will not dramatically sag like the lead-acid batteries.



### Fast charge

As little as 2.5 hours.



### No modification

Easy to install and drop-in replacements.



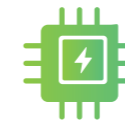
### No maintenance

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 a peak performance from real-time monitoring, remote diagnosing and upgrading, and all-time cell balancing management.



### Clean energy

No-harm to you & the environment.



### Strict waterproof

Work well in some extreme weathers.



## Technical specifications

Model	Nominal voltage	Nominal capacity	Dimension (for reference)	Weight (for reference)	Stored energy	Continuous charge	Continuous discharge	Surge discharge	IP rating
B1208A	12.8 V	8 Ah	151×65×94.5 mm (6.0×2.6×3.7 inch)	1 kg (2.2 lbs)	0.1024 kWh	8 A	8 A	16 A	IP67
B1212A	12.8 V	12 Ah	151×98.5×96.5 mm (6.0×3.9×3.8 inch)	1.5 kg (3.3 lbs)	0.1536 kWh	12 A	12 A	24 A	
B1216A	12.8 V	16 Ah	181×76×168 mm (7.1×3.0×6.6 inch)	2.2 kg (4.9 lbs)	0.2048 kWh	16 A	16 A	36 A	
B1224A	12.8 V	24 Ah	195×130×163 mm (7.7×5.1×6.4 inch)	3.2 kg (7.1 lbs)	0.3072 kWh	24 A	24 A	48 A	

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# Trolling motor battery chargers

16V/25A 16V/30A 29V/30A 42V/13A

RoyPow has specially designed the optimized charger by using our lithium iron phosphate batteries (LiFePO<sub>4</sub>) for faster and safer charging.

## Plugging in and charging as you like

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

### Intelligent protection

With the function of preventing hot unplug & plug in, as well as preventing 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

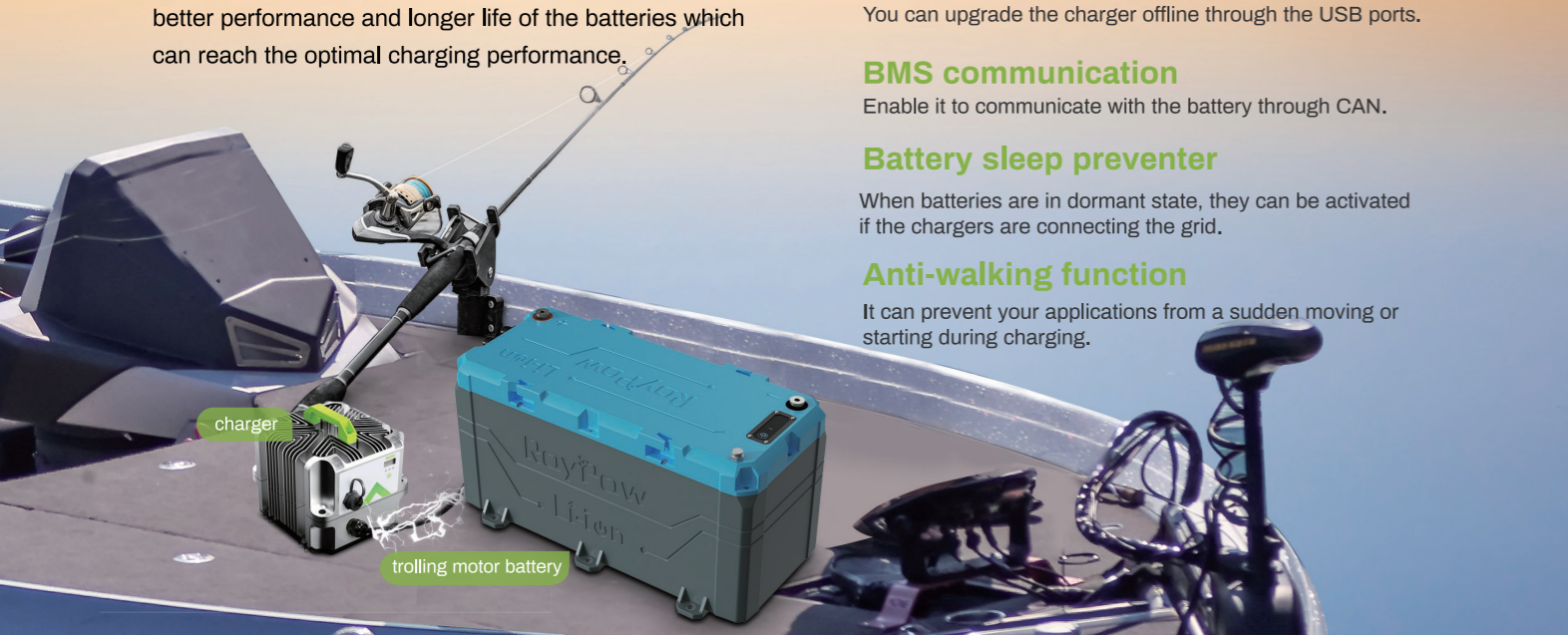
Enable it to communicate with the battery through CAN.

### Battery sleep preventer

When batteries are in 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.



## Technical specifications



Model	Charge voltage	Charge current	Dimension (for reference)	Weight (for reference)	Casing material	IP rating
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				
Charger for B24100H	29 V	30 A				
Charger for B36100H	29 V	30 A				
Charger for B24100V	29 V	30 A				
Charger for B36100H	42 V	13 A				
Charger for B36100V	42 V	13 A				

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.  
2. All data are based on RoyPow standard test procedures. Actual performance may vary according to local conditions.

# Fish finder battery chargers

12V 3A/10A

Highly efficient and simple to use, our charger are designed for most leading brands of fish finders.



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 (AC)	Input voltage	110 V (AC)
3 A	Current rating	10 A
Including alligator clamp and ring terminal	Components	Including alligator clamp and ring terminal

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.  
2. All data are based on RoyPow standard test procedures. Actual performance may vary according to local conditions.

## 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. 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 1 V, the chargers can wake up the sleep batteries, bringing them back to life.

## Easy to use

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

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



# The world-renowned brand in li-ion replacing lead-acid field

RoyPow is founded in Huizhou City, Guangdong Province, China, with manufacturing center in China and subsidiaries in the USA, Europe, Japan, the UK, Australia, South Africa, etc., to settle global corner stones, consolidate sales and service system.

We have specialized in the R&D and manufacturing of lithium replacements for lead-acid batteries for years, and we are becoming global leader in lithium-ion replacing lead-acid field.



## R&D and manufacturing highlights

- > Persistent technology innovation.
- > All-round testing.
- > Integrated design.
- > Advanced MES system.
- > Fully automatic production line.
- > IATF16949 system.
- > QC system.

By virtue of all this, RoyPow is capable of “end-to-end” integrated delivery, and makes our products out-performing industry norms.



# Upgrading to a new technology, with our turnkey solutions

**10+** years lithium-ion batteries dedication, we are proud to offer customers professional battery solutions:

### > Motive power battery solutions

including batteries for low speed vehicles, such as golf carts, automated guided vehicles; batteries for marine & boat, trolling motors and fish finders.

### > Lithium-ion replacing lead-acid solutions

including batteries for various industrial applications, such as forklifts, aerial work platforms and floor cleaning machines.

### > Energy storage solutions

including portable energy storage series, household energy storage series, truck air conditioner systems.



## Global sales and service network

- > Timely delivery.
- > Hassle-free after-sale 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.

