



PRODUCT MANUAL

12V 100Ah
LiFePO4 Lithium Battery
100A BMS

Thank you for choosing us, please read this manual before use.

Made in China

PRODUCT SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Maximum Charging Voltage	14V~14.6V
Maximum Charging Current	100A
Charging Temperature	0°C~60°C
Discharging Temperature	-20°C~60°C
Storage Temperature	0°C~35°C

APPLICABLE SCENARIOS



Off-Grid



Home
Backup Power



Solar
Energy Storage



Yacht



Trolling Motor



RV



Vanne



Camping

INSTRUCTIONS FOR USE

- Upon receiving the lithium battery, please fully charge it before use.
- The installation location should be well-ventilated, dry, away from heat sources and direct sunlight, ensuring sufficient space for heat dissipation around the lithium battery.
- When securing the lithium battery, ensure it is firmly in place to avoid vibration or impact that could loosen battery connections or damage the battery. Ensure a secure connection when connecting the positive and negative terminals of the battery.
- If the lithium battery is not to be used for an extended period, fully charge it (keeping the charge between 50% and 80%), then disconnect all external connections. Store it in a well-ventilated, dry environment at a temperature between 0°C and 30°C. Recharge it every two months to avoid storing it completely discharged.
- Connect to Bluetooth APP: There are two QR codes affixed to the top of the lithium battery casing. One QR code can be scanned to view product information; the other QR code can be scanned to install the Bluetooth APP (iOS/Android/PC). After logging into the APP (ZXH-BMS), enter the Bluetooth model number at the bottom of the QR code to search and connect via Bluetooth. You can then view data in real time, correct charging and discharging current, check BMS status, modify parameters, and perform other operations.

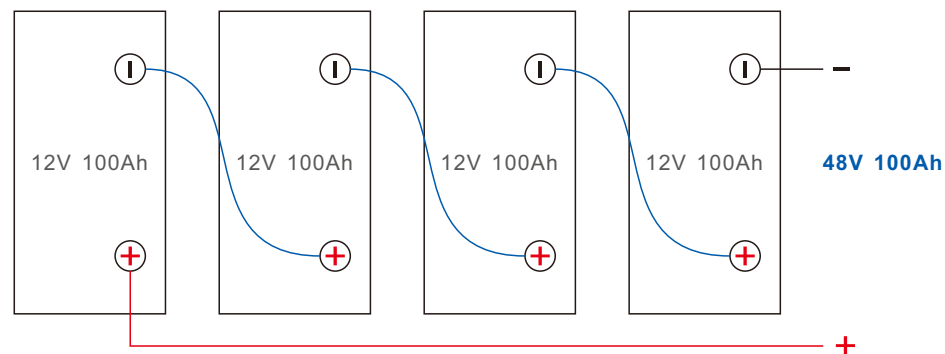
CHARGING PRECAUTIONS

- Please use a dedicated lithium iron phosphate charger that conforms to the specifications of this lithium battery. The charger's rated voltage should be within the range of 14.2V-14.6V. Avoid using lead-acid battery chargers or other non-dedicated chargers to prevent battery damage or safety accidents.
- Before charging, please ensure that the positive and negative terminals of the lithium battery are connected correctly. Connect the positive terminal of the charger output to the positive terminal (+) of the battery, and the negative terminal to the negative terminal (-). Reversing the positive and negative terminals is strictly prohibited.
- The lithium battery may generate slight heat during charging, which is normal. If severe overheating, bulging, leakage, or other abnormal conditions occur, stop charging immediately, disconnect the charger from the battery, and contact a professional person.
- The charging environment should be well-ventilated and dry, away from fire, heat sources, and flammable and explosive materials. Avoid charging in enclosed spaces.

DIY BATTERY PACKS

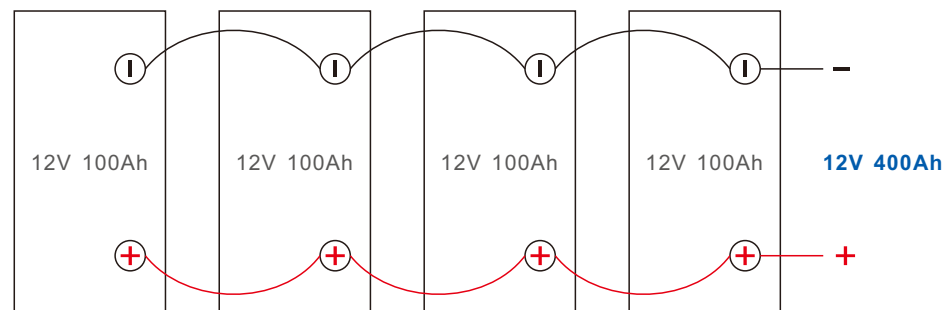
Series Connection:

The maximum voltage can reach 51.2V suitable for high-voltage equipment.



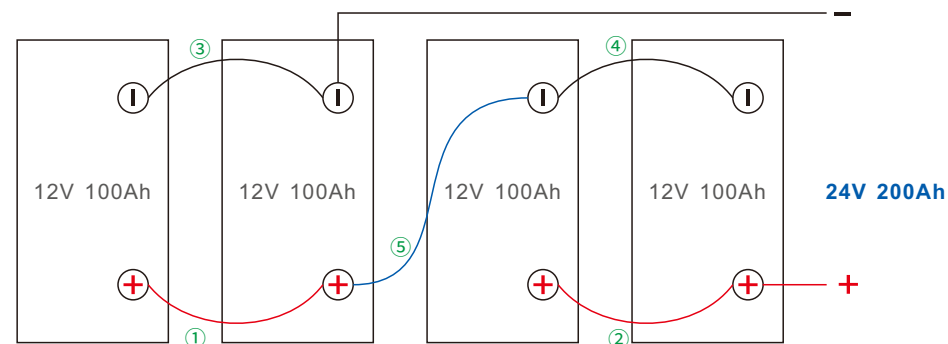
Parallel Connection:

The maximum current can reach 400Ah suitable for high-capacity equipment.



Hybrid Connection:

Suitable for 24V devices. (Note: Connect in parallel first, then in series.)



CONNECTION NOTES

- 1 Wear insulated gloves before handling.
- 2 All lithium batteries must be fully charged individually and allowed to stand for at least 30 minutes after full charge before connection.
- 3 When connecting lithium battery packs in parallel, ensure that the battery pack voltages are consistent and that the total voltage difference between each battery pack is less than 1V. This is to prevent the high-voltage battery pack from charging the low-voltage battery pack with a large current when different battery packs are connected in parallel, which could trigger the BMS short-circuit protection function.
- 4 When connecting lithium battery packs in parallel, manually disconnect the discharge MOS in the Bluetooth APP control center interface before connecting in parallel to prevent sparks when the battery packs are connected in parallel.
- 5 Up to 4 sets of lithium batteries can be connected in series, parallel, or a combination thereof.
- 6 Do not connect this lithium battery to other batteries of different models or brands.



ATTENTION

Do not short-circuit the positive and negative terminals of this product during installation and storage.

This product is not to be used as a starting battery. Do not use this product for any other purpose, as this will cause damage.

Keep this product out of reach of children to avoid danger.

Do not place this product near fire or immerse it in water.

Do not allow the ambient temperature to drop suddenly, as this may cause condensation inside.

Do not expose this product to fire, heat sources, direct sunlight, or temperatures exceeding 60°C.

Do not disassemble or modify the internal structure of this product. Do not strike, puncture, or squeeze the outer casing, as this may damage the structure and cause a safety accident.

CUSTOMER SUPPORT

We constantly devoted ourselves to providing the best product experience and customer service. If you have any questions or problems during use, please feel free to contact RDJLIPB. We will serve you wholeheartedly and provide professional technical support and solutions!

*Please provide your order number first when contacting our customer service.

www.ruidejinpower.com

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.