

HAIBO®



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HAIBO®

JIN series

POWER BATTERY

LITHIUM-IRON PHOSPHATE BATTERY



USERS' MANUAL

For your better use of this product, please read the instructions carefully after receiving the product.



Specification

- ◆ Product name: "Jin" series of LiFePo4 Battery
- ◆ Voltage: 12VDC 24VDC 48VDC 60VDC
- ◆ Battery capacity: 50Ah 100Ah 150Ah 200Ah
- ◆ Adapter Charger input voltage: 220VAC
- ◆ Adapter Charger output voltage: 14.6VDC 29.2VDC 58.4VDC 73VDC
- ◆ Adaptor charger power: 240W 360W 600W 900W 1500W 2000W
- ◆ Do not exceed power, otherwise the protective plate may be burned and not under the warranty. Battery products, to avoid child con

Diagram

(different specifications, the same, the actual product will be different)

 <p>LIPB-12-100</p> <p>SPECIFICATION: 12V100Ah</p> <p>SPECIFICATION: 360X270X115mm</p> <p>CARRYING TYPE: PORTABLE</p>	 <p>LIPB-24-100</p> <p>SPECIFICATION: 24V100Ah</p> <p>SPECIFICATION: 350X290X260mm</p> <p>CARRYING TYPE: PORTABLE</p>
 <p>LIPB-48-100</p> <p>SPECIFICATION: 48V100Ah</p> <p>SPECIFICATION: 570X400X240mm</p> <p>CARRYING TYPE: PORTABLE&PULL ROD</p>	 <p>LIPB-60-100</p> <p>SPECIFICATION: 60V100Ah</p> <p>SPECIFICATION: 570X400X240mm</p> <p>CARRYING TYPE: PORTABLE</p>

Parameters

◆ The lithium iron acid battery pack is built-in high-power battery protection panel, equipped with overcharge, overdischarge, overcurrent, short circuit protection, high temperature protection, balanced protection, to protect the battery charging and discharge process. The battery pack is full, with 2.3V deficiency. Full power, after pulling out the charger, the virtual power will gradually decline, straight and stable. The battery automatically cuts off when the battery pack is off. And the power-off voltage is higher than the general lead-acid battery, which needs to be restored before charging. This is normal phenomenon.

◆ Automatically powered off due to the battery low voltage. In order to avoid loss, please take the full charge in advance and calculate the use time.

The following reference voltage is the stable voltage:

number	cell voltage(V)	Full-current voltage(V)	Power-off voltage(V)	charging voltage(V)
1	12	13.2-13.8	11-12	> 12
2	24	26-28.5	22-24	> 24
3	48	53.5-55	45-48	> 48
4	60	67-69	56-60	> 60

Notes Of Battery

- 1) The battery cannot be fully shipped, so when receiving the battery, please charge it first, and then use it.
- 2) Before installation, ensure the battery switch is off to prevent short circuit.
- 3) Ensure that the charging port is connected to the charger and the discharge port is connected to the propulsion system to prevent misconnection.
- 4) Make sure that the battery switch is turned on only after the positive and negative poles are properly connected.
- 5) Each set of batteries can be fully charged in parallel, otherwise it will easily lead to the battery to enter the protective state.
- 6) When charging, please charge each battery separately.
- 7) Do not use them in series or in parallel with other types of batteries.
- 8) Tandem use is not recommended.
- 9) Do not change the lines without authorization.
- 10) Battery waterproof work.
- 11) The first few times can be used out, full of multiple cycles several times, later can use with the random charge.
- 12) For a long time, please keep it in full charge. Check every three months and be brave.

Notes Of Charger

- 1) Avoid strong vibration to avoid loosening and damage to internal U parts.
- 2) Dry and ventilation, to avoid blocking the fan air outlet, to avoid damage caused by poor ventilation.
- 3) Connect the market electricity first, and then connect the charging battery.
- 4) Ensure correct normal wiring.
- 5) When full, please try to unplug the charger and the market electric socket in time.
- 6) Charge with the charger of the same voltage specification.
- 7) After the charger is on, the indicator is red and green when full. During charging, the cooling fan will turn on, and the charging current decreases as the battery gradually fills up.

Cautions

- 1) It is forbidden to use other types of chargers for charging, or to charge the reusers.
- 2) A lithium iron phosphate charger is strictly prohibited to charge other types of batteries.
- 3) It is strictly prohibited to have shaking, impact, heavy pressure and other external forces during the use process.
- 4) It is strictly prohibited to put it in a high temperature, humid environment and sun exposure.
- 5) It is strictly forbidden to approach the inflammable and explosive items.

Troubleshooting

Number	Hitch	Cause	Measure
1	Charge failure	Wiring	Check the input and output lines
		Plug-in board	Check wiring boards, etc
		Plug	Check plugs and sockets
		Switch	Check the circuit breaker and charging switch
2	Discharge failure	Wiring	Check the input and output lines
		Switch	Check the circuit breaker and power switch
3	Capacity reduced	Charger	Check whether the voltage meets parameter requirements
		Electricity over using	Check whether the motor current increases
4	Charging reduced	Normal charging	Replace the charger
5	Power off repeated	Over currenty	Check whether the current is too high
		Over heating	Check whether the battery temperature is too high

Number	Hitch	Cause	Measure
6	The charging indicator light is not on	Indicator lamp	Check for normal charging
		Wiring	Check wiring
		Input	Check the input plug
		Switch	Permalurgia chargin

◆ If still fails to resolve the problem, please contact the after-sales service.

◆ No warranty

- 1.Non-company products.
 - 2.Out of the warranty period.
 - 3.Failure caused by water inlet, short circuit, backconnection, impact, fall,night net change.
 - 4.Failure caused by changing the line without use as require.
 - 5.Failure from charging using other type of charger
- Failure caused by the quality problems of other batteries and charger themselves.

Maintenance

Maintaining objects	Time interval	Maintenance process
Environmental audit	Before using	Check and in addition to water, water leakage, sun exposure, open fire and other hidden dangers
Additional charge	After using	Charge in time
Clean	After using	Wipe out the water, sediment and other dirt in time
Regular inspection	One year	Complete charge and discharge once