



*Lithium-ion Battery **POWERCENT***



Lithium-ion Battery Pack



Our battery is made of automotive grade LiFePO4 cells and built-in BMS to prevent overcharge, over-discharge, over-current, overheating & short circuit. Compared with the 200-500 cycles and 3-year lifespan of lead-acid, our battery has more than 4000 deep cycles and a 10-year lifespan, which means that the lifetime of one of our 12V 100Ah LiFePO4 battery is equivalent to the total lifetime of 3-8pcs 12V 200Ah lead-acid batteries.



Technical Specifications

Model/Parameters	Power-cent-12400	Power-cent-24150	Power-cent-24170	Power-cent-24230	Power-cent-48110	Power-cent-7260
Rated Voltage	12.8V	25.6V	25.5V	25.5V	51V	73V
Rated Capacity(0.2C, @25°C)	400Ah	150Ah	170Ah	228Ah	114Ah	60Ah
Rated Energy	5120Wh	3840Wh	4599Wh	5910Wh	5910Wh	4380Wh
Cell & Pack	LiFePO4, Square cell, Aluminum shell	LiFePO4, Square cell, Aluminum shell	NCM, SKI cell, Aluminum shell	NCM, SKI cell, Aluminum shell	LiFePO4, Square cell, Aluminum shell	NCM, SKI cell, Aluminum shell
Output voltage range	10.0V~14.6V	20.0V~29.2V	20.0V~29.2V	20.0V~29.2V	37.5V~54.75V	50V-73V
Charging voltage	14.0V~14.6V, CC-CV	28.0V~29.2V, CC-CV				70V-73V, CC-CV
Cut-off voltage	10.0V	20.0V	20.0V	20.0V	37.5V	50.0V
Max. Constant Charging current	120A	120A	100A	100A	50A	50A
Recommended charging current	<100A, best@20A	<80A, best@20A	<80A, best@20A	<80A, best@20A	<30A, best@20A	<30A, best@20A
Recommended charging type	CC-CV until current<0.2C					
Max. Constant Discharging current	120A	120A	120A	120A	120A	120A
Capacity Efficiency	>99.5%					
Built-inBMS						
Over-charge protection	Module>15.2V or Cell>3.8V	Module>29.6V or Cell>3.8V	Module>29.4V or Cell>4.2V	Module>57.0V or Cell>3.8V	Module>57.0V or Cell>3.8V	Module>84.0V or Cell>4.2V
Over-discharge protection	Module>10V or Cell>2.5V	Module>20.0V or Cell>2.5V	Module>20.0V or Cell>2.5V	Module>37.5V or Cell>2.5V	Module>37.5V or Cell>2.5V	Module>50.0V or Cell>2.5V
Over-current protection	Charging: >105A, delay10S;>205A, delay3S;					
Short circuit protection	Discharging: >120A, delay158;>305A, delay3S; Short circuit protection: Integrated					
Cell balance	Passive, 60mA					
Over temperature protection	Charging: <-5°C or >65°C Discharging: <-20°C or >65°C					
Case material	ABS					
Dimensionl L*W*H(mm) & Terminal	520*190*267, -M8, +M10					
Weight(kg)	25±0.5	25±0.5	25±0.5	25±0.5	25±0.5	25±0.5
Environment						
Humidity	5%~95% relative humidity					
Charging temperature	0°C~+45°C					
Discharging temperature	-20°C~+60°C					
Storage temperature	-20°C~45°C					
ServiceLife						
Cycle life	80%DOD>5000 times, @0.5C, 25°C					
Design life	>15 years					

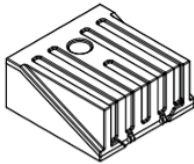


Installation Guide

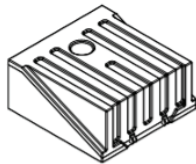
INSTALLATION TOOL

Tool set, diagonal pliers, cable ties, multimeter

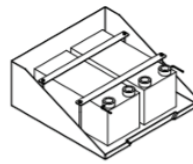
INSTALLATION STEPS



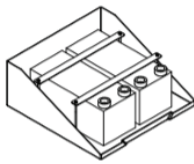
1. First check whether the size of the product is suitable for the installation position on the vehicle, and then turn off the engine and power supply of the vehicle



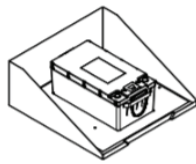
2. Open the top cover of the battery compartment by breaking the tab



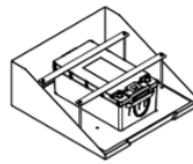
3. Remove the wiring harness of the original lead-acid battery



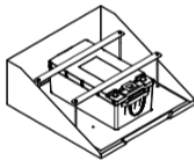
4. Remove the screw and remove the original lead-acid battery



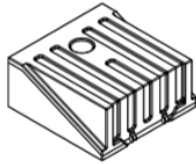
5. Put the 24V lithium battery product in the installation position of the original lead-acid battery or lithium battery on the cart



6. Install the screw and fix the product with the screw



7. Connect the positive and negative terminals of the power supply



8. Install the top cover of the power box and buckle the buckle

Please operate according to this manual when installing, if you do not follow the manual and cause directly or indirectly product problems and other hazards and losses, the company is not responsible.

PRECAUTIONS

1. Do not install if the system is found to be damaged or missing parts, otherwise accidents may occur
2. If the packing list does not match the physical name, please do not install it and contact the company in time
3. When handling and installing, please lift gently to avoid hurting your feet or damaging the product
4. The bottom of the installation must be flat and free of bumps; the product must face up, and it is forbidden to invert, sideways or obliquely
5. When installing this system, do not drop sundries into it, otherwise it may cause system failure
6. When disassembling the lead-acid battery, the tabs must be covered with insulating tape to prevent short circuits
7. Make sure that the power supply is disconnected before wiring, otherwise there is a risk of electric shock or fire
8. When wiring, please pay attention to the positive and negative poles of the power supply. The battery system can only be powered on after the positive and negative poles are connected correctly.
9. It is strictly forbidden to unplug and plug in the power state, otherwise there is a risk of electric shock
10. In order to avoid loss, please place the disassembled parts and product accessories together and keep them carefully

Software Login:

(1) First time login need to register, click "Register Now", enter the registration interface; enter After entering your cell phone number and self-set password, click "Send Verification Code" and wait for the verification code SMS;

(2) After receiving the verification code, copy and enter the code and click Register;

(3) After successful registration, you can enter your cell phone number and password to log in the software.

Bluetooth connection:

(1) Turn on the Bluetooth of your cell phone, click the Bluetooth logo in the upper right corner of the main interface to enter the Bluetooth search interface;

(2) Select the battery pack according to the model and name, and click "connect" to connect

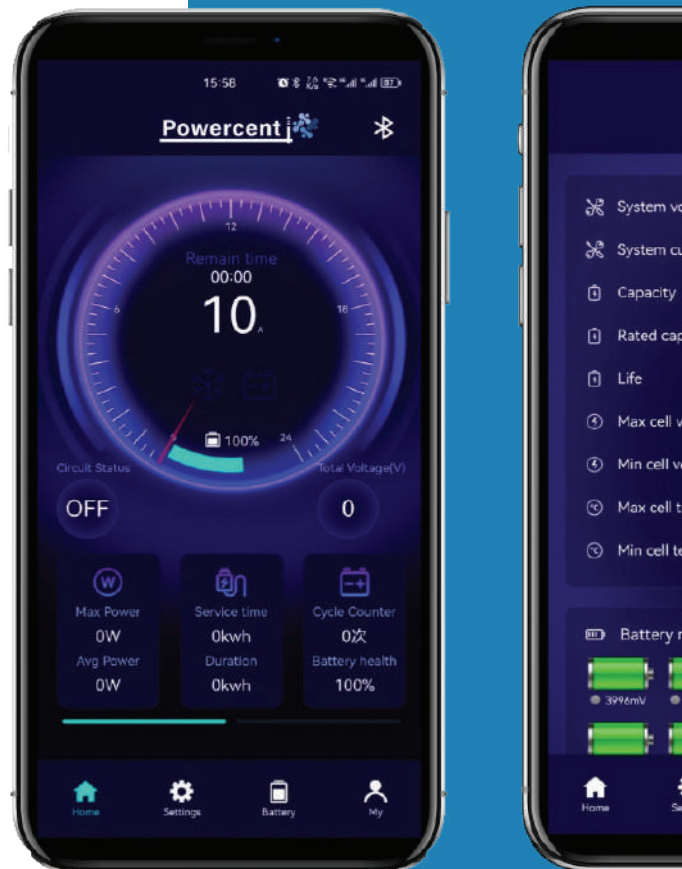
(3) After connecting, when you see the value of the main interface has changed and can correspond to the current battery status, it is considered that the Bluetooth is connected.

(3) After the connection is completed, when you see the value in the main interface change and correspond to the current state of the battery, the Bluetooth connection is considered successful.

Convenience and control

At your fingertips

INNOVATIVE BATTERY
MONITORING APP



Caution

1. This series of lithium battery system must be powered by the specified voltage, otherwise it may cause damage to the system.
2. When handling and installing, please lift and place gently to avoid smashing your feet or damaging the product.
3. This system should be kept away from flammable objects and heat sources.
4. Before wiring, you must make sure the power supply is disconnected, otherwise there is a risk of electric shock or fire.
5. Battery system positive pole and negative pole are correctly connected before energizing, and it is strictly forbidden to unplug the wire in the energized state, otherwise there is a risk of electric shock.
6. Before running, please make sure the system is within the allowed range of use, otherwise it may cause damage to the system.
7. If you want to disassemble, please make sure to disconnect the power, otherwise there is a risk of electric shock.
8. Please appoint qualified electrical engineering personnel for maintenance, inspection or replacement of parts.
9. It is forbidden to modify this system by yourself to avoid serious accidents.



Troubleshooting

Cannot turn on after pressing the button

1. poor contact with the button: check whether the keys are in good contact
2. screen power supply damage: re-plug the screen power supply plug, re-operation keys

Cannot be turned off after pressing the button

1. poor contact with the button: check whether the keys are in good contact
2. screen power supply damage: re-plug the screen power supply plug, re-operation of the keys

Cannot be charged

1. charging interface poor contact: the charging gun will be plugged again, re-operation charging interface
2. insurance or relay damage: Check whether the insurance or relay is damaged
3. The temperature is too high: avoid direct sunlight, keep ventilation dry
4. temperature is too low: Add heating system

Vehicle/air conditioner cannot be started

1. Check the remaining power value of the display, such as less than 20% should immediately charge the battery, then you should press and hold the restart button for 3s and start the vehicle within 3min.
2. Look at the battery information data on the display to see if there is
3. Look at the battery information data on the display to see if there is a fault warning message;
4. Plug and unplug the connector again, and re-turn the key for driving operation

CLEAN & AFFORDABLE ENERGY FOR EVERYONE POWERCENT

Get in touch.

We're available to answer your questions and help you make informed decisions that meet your needs. Your satisfaction is our top priority. Contact us today!



3 / F, No. 299, Xingguang Road,
Yinzhou District, Ningbo City,
Zhejiang Province.



Room No. 1802, 18th floor, Block
B, A'amal St, Executive Bay Tower,
Business Bay, Dubai, UAE



22 / F, Block A, Asian Trade
Plaza, Wuhan City, Hubei
Province, China.



+86 159 7216 9442



+971 523743891
+971 43686319



+86 159 2738 5122
+86 (027) 8765 9800



ress@Powercent.cn



cess@Powercent.cn



ress@Powercent.cn