

 **Bluetooth 5.0**

POWER[®]
QUEEN

AUTO-HEATING

Smart Edition
(125A BMS)

25.6V
125Ah

Smart Edition

Product Manual

 www.ipowerqueen.com



Register Warranty



www.ipowerqueen.com



service@ipowerqueen.com

PRODUCT OVERVIEW

25.6V 125AH BATTERY

Operating Voltage: 25.6V

Charging Voltage: 28.8V $\pm$ 0.4V

Recommended Charge Current: 25A (0.2C)

Required Minimum Charge Current for Heating Function: 10A

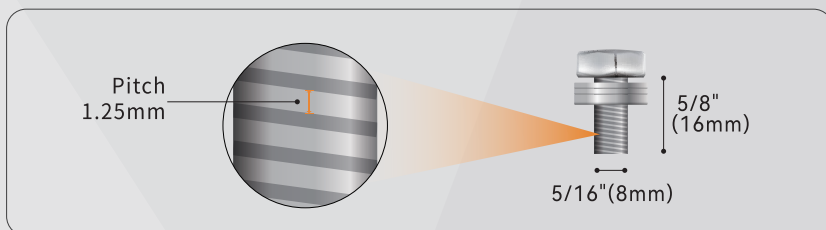
Max. Continuous Discharge Current: 125A

Max. Continuous Output Power: 3200W

ADDITIONAL COMPONENTS

M8- 5/8" (16MM) TERMINAL BOLTS

The terminal bolts are used to secure multiple cable lugs to a single battery terminal. The bolts can be replaced with **M8** bolts of other lengths based on actual needs.



SOCKET WRENCH & INSULATING CAPS

Cover the battery with the insulating caps after tightening the bolts. If the cap melts, stop using the battery and reach out to service@powerqueen.com for further analysis.



BATTERY PRE-USE GUIDE

PREPARATION & PROTECTION

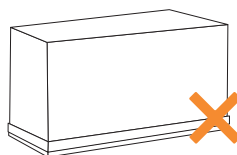
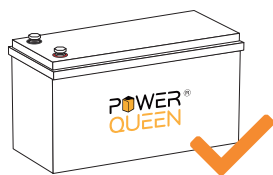
With proper care, the Power Queen battery will provide years of trouble-free power. Read this part carefully for more detailed & useful information.

- PLEASE: Carefully read this **product manual** before use.
- After unpacking, wear **insulating gloves** for battery installation and wiring.
- Due to shipping-related regulations, this battery carries about **30%~50% capacity** when shipped.
- **Fully charge** the battery before starting to use it.

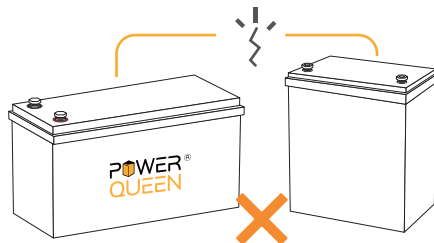
OPERATING PRECAUTIONS

Precautions for battery installation, connection, and storage.

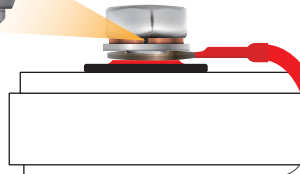
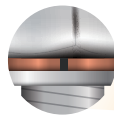
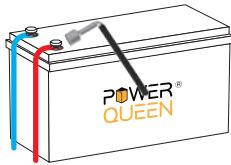
 Install the battery upright with the post bolts facing up. If it's necessary to mount it on its side, reach out to service@ipowerqueen.com to confirm the correct direction.



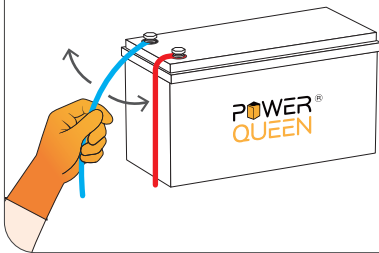
 Do not connect batteries from different brands or with different specifications in series or parallel.



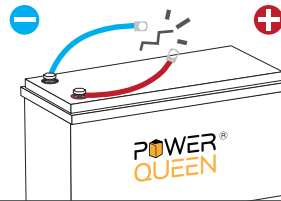
 **Tighten the terminal bolts with socket wrench** provided until they can not be turned and **the spring washer is completely flattened**. Having loose battery terminals will cause the terminals to build up heat resulting in damage to the battery.



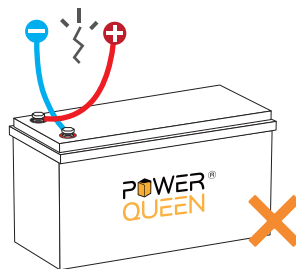
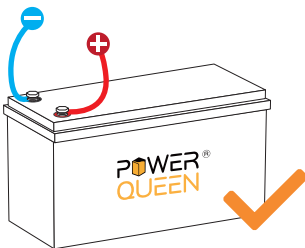
 **Give the wire harness a firm shake** to make sure it's tightly secured.



 **Avoid direct contact between positive and negative terminals** of the battery, and **avoid contact between metal / conductive objects from both terminals**, as those could cause a short circuit and damage.



 **Ensure that the battery is properly wired to the device, do not reverse the positive and negative connections.**



 Before connecting the load, make sure the **power supported by the battery** can meet the power demand of the load.

 For long-term storage, it is advised to store the battery between **10°C to 35°C / 50°F to 95°F** at a **50% charge level** and ensure a **recharge every three months**.

24/7 MONITORING VIA

POWER QUEEN APP

This product, integrated with Bluetooth 5.0, enables accurate and effortless real-time tracking and management of the battery status.

➤ Step ①

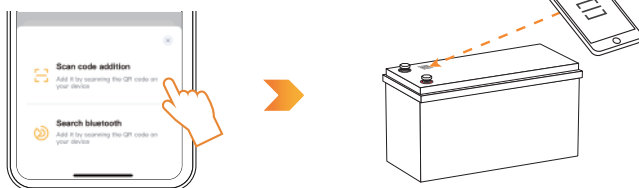
Download the Power Queen APP and register your account.



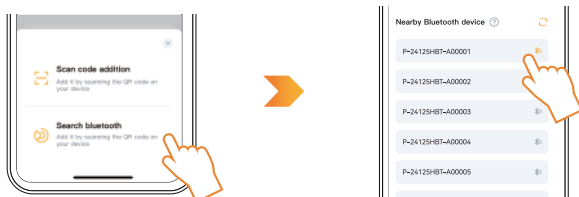
➤ Step ②

Pair the battery with the Power Queen APP and effortlessly keep track of the battery's real-time status.

📱 Scan QR Code



🔍 Search Device



FCC STATEMENT (FCC ID: 2BE5J24V125)

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ISED STATEMENT (IC: 32727-24125)

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

IMPORTANT SAFETY INSTRUCTION

1. Keep the battery away from fire, heat sources, sparks, and hazardous chemicals. Never soak the battery in water.

2. Maintain Adequate Ventilation and Heat Dissipation

Place the battery in a well-ventilated area with sufficient heat dissipation to prevent overheating and damage.

3. Size the Battery Cables and Connectors Appropriately

Use high-stranded copper connectors and heavy gauge cables to handle possible battery loads. Make sure to keep identical cable lengths.

Avoid accidents caused by unsuitable connectors or cables that make the connection a heat source during battery operation.

4. DO NOT puncture, drop, crush, burn, penetrate, shake, or strike the battery.

The battery should be securely fastened during handling to prevent impact or dropping.

It should be safely secured to a solid plane and the cables safely tied to a suitable location to avoid arcing and sparking due to friction.

DO NOT press it by placing heavy stuff on top of it for long periods, which may damage it due to an internal short circuit.

5. DO NOT open, dismantle, or modify the battery.

6. DO NOT touch the exposed electrolyte or powder if the battery casing is damaged.

7. Uncovered electrolyte or powder that has contacted the skin or eyes MUST be flushed out with plenty of clean water immediately. Seek medical attention afterward.

8. Avoid Short Circuit

Please use circuit breakers, fuses, or disconnects that have been properly sized by certified electricians, licensed installers, or regional code authorities to protect all the electrical equipment in your system. The battery has a built-in battery management system (BMS) that protects the battery cells from over-charge, over-discharge, and over-current, however this alone will not protect your system from severe electrical conditions.

9. Trained and certified technicians are required for safe and reliable installation. This product manual can only serve as a guideline as it cannot cover all possible scenarios.

10. Verify Correct Polarity

Please verify the polarity before connecting the wiring. Reverse polarity can and will destroy the battery and other electrical equipment. Use a multimeter to determine proper polarity.

11. Avoid Exposed Metal Terminals or Connectors

The terminals of this battery are always live. Avoid exposed metal terminals or connectors; DO NOT place tools on the terminals or touch them with bare hands; DO NOT short circuit or use outside of specified electrical ratings.

12. DO NOT dispose of the battery as household waste. Please use recycling channels in accordance with local, state, and federal regulations.

13. DO NOT use it as a starting battery.

WARNING

1. Batteries are potentially dangerous and proper precautions must be taken during operation and maintenance.
2. Improper use of the battery can lead to battery failure or other potential damage.
3. Improper configuration, installation, or use of related equipment in the battery system may damage the battery and other related equipment.
4. Please wear proper personal protective equipment when working on the battery.
5. Battery installation and maintenance must be performed by trained and certified technicians.
6. Failure to follow the warnings above can result in potential damage.

If you have any questions or need any help, please feel free to contact us (and leave your contact phone number) at service@ipowerqueen.com, we will offer phone or email support in 12hrs.

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WHAT TO DO WHEN THE BATTERY CAN'T DISCHARGE?

BATTERY

PARAMETERS

Item	Parameter
Cell Type	LiFePO ₄
Nominal Voltage	25.6V
Rated Capacity	125Ah
Energy	3200Wh
Internal Resistance	≤40mΩ
Cycle Life	≥4000 times
Battery Management System (BMS) Board	125A
Charge Method	CC/CV
Charge Voltage	28.8V±0.4V
Recommended Charge Current	25A (0.2C)
Required Minimum Charge Current for Heating Function ^①	10A
Max. Continuous Charge Current	125A
Max. Continuous Discharge Current	125A
Surge Discharge Current	625A@1 second

Item	Parameter
Max. Continuous Output Power	3200W
Dimension	L15.35*W7.99*H10.00 inch
	L390*W203*H254 mm
Housing Material	ABS
Recommended Terminal Torque	106.2 to 123.9 inch·lbs / 12 to 14 N·m
Protection Class	IP67
Temperature Range	Charge: -20°C to 50°C / -4°F to 122°F
	Discharge: -20°C to 60°C / -4°F to 140°F
	Storage: -10°C to 50°C / 14°F to 122°F
Heating Temperature	Charge: -20°C to 5°C / -4°F to 41°F
Approx. Heating Time @10A	30-60mins (From -10°C / 14°F)
	70-100mins (From -20°C / -4°F)
Low Temperature Charging Protection (LTCP) Function®	Yes
Resume Charging Temperature Under LTCP	5°C/41°F (Battery Temperature)

- ① The charge current should be at least 10A to activate the automatic self-heating function.
- ② This product supports Low Temperature Charging Protection (LTCP), where the BMS stops battery charging when the battery temperature falls below 0°C/32°F and resumes charging when the temperature rises above 5°C/41°F.

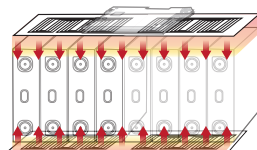
AUTOMATIC

SELF-HEATING FUNCTION

The automatic self-heating function will be activated by the BMS when the battery is connected to a charger or the battery SOC is above 20% @ -20°C to 5°C / -4°F to 41°F depending on the selected heating mode. The heating will be stopped when the battery temperature has reached the set value, which normally takes approx. 30-60mins from -10°C / 14°F and approx. 70-100mins from -20°C / -4°F .

HOW DOES IT LOOK LIKE?

Two heating pads are installed on two sides of the battery, providing sufficient heating and more comprehensive protection of your battery.



HOW DOES IT WORK?

➤ Step①

Connection

Connect the battery to the charger.

(DC charging voltage: $28.4\text{V} \sim 29.2\text{V}$, DC charging current $\geq 10\text{A}$)

➤ Step②

Heating or Charging

(based on the initial battery temperature)

Situation ①

When the initial battery temperature is between -20°C to 5°C / -4°F to 41°F , the battery starts heating. When the battery temperature is $\geq 10^{\circ}\text{C}$ / 50°F , the heating will be stopped and the battery will be charged.

Situation ②

When the initial battery temperature is $\geq 5^{\circ}\text{C}$ / 41°F , the battery will be normally charged and the heating function will not be activated.

REGULAR & SMART WARM-UP MODES

This product supports two heating modes, which can be adjusted through Power Queen APP. The specific modes are as following table.

HEATING MODE	POWER SUPPLY	CHARGER CURRENT	BATTERY SOC ^①	HEATING SOURCE/STATUS
Regular (Default)	Charger	≥10A	/	Charger
		< 10A		Not able to start heating ^②
Smart Warm-up	Charger+Battery	≥10A	/	Charger
		< 10A	> 20%	Use charger first, battery as supplement
			≤20%	Not able to start heating
	Battery	/	> 20%	Battery (Not able to start heating when the battery temperature is below -20°C / -4°F)
			≤20%	Not able to start heating

① The 20% Battery State of Charge (SOC) is an estimation, the actual values may exhibit a variance of ±5%.

② To turn on the heating function, make sure charger/battery meet the below requirements. Regular Heating Mode: Charger current≥10A. Smart Warm-up Mode: Battery SOC > 20% or charger current≥10A.

Smart Warm-up Mode

In addition to the power supplied by the charger, this mode supports using the battery's own power to heat the heating pads to maintain the battery temperature (when there is no/not enough external charging power supply and the battery SOC > 20%), thereby improving the heating energy efficiency.

● **Recommended Application**

Since it consumes additional battery power, it is only recommended for use in the following situations:

① In outdoors with a temperature below -5°C / 23°F, there is a need to save heating time and charge the battery quickly during daylight hours.

Or ② The battery needs to power loads when the outdoor temperature drops below -20°C / -4°F at night. Please preselect this mode and keep the heating status when the battery temperature is above -20°C / -4°F.

Note: It is recommended to switch to the Regular Heating Mode or power off the battery during storing, to avoid abnormal battery capacity caused by the battery repeatedly consuming its own power to heat up.

● **Recommended Charger Current**

Depending on the different temperatures, it is recommended to choose different charging currents for fast charging, which can be referred to as follows:

TEMPERA-TURE	APPROX. CAPACITY CONSUMPTION AT NIGHT ^①	RECOMMENDED CHARGER CURRENT	RECOM-MENDED PV POWER	APPROX. CHARGING TIME ^② (REPLENISH CAPACITY CONSUMED AT NIGHT)
-18°C / -0.4°F	15Ah	8A to 15A	410W to 820W	2 hours to 1 hour
-15°C / 5°F	14Ah	7A to 14A	410W to 820W	2 hours to 1 hour
-10°C / 14°F	10Ah	10A to 20A	510W to 1100W	1 hour to 0.5 hour
-5°C / 23°F	7Ah	7A to 14A	410W to 820W	1 hour to 0.5 hour

① These data represent the approximate capacity consumed during night (about 9 hours) using only the battery power to maintain battery at 5°C to 10°C / 41°F to 50°F. Before setting Smart Warm-up Mode at night, it is recommended to ensure that the battery capacity is at least 25Ah greater than the expected consumption.

② The recommended charging current can replenish the battery capacity consumed by the Smart Warm-up Mode at the corresponding time listed. For example, at -18°C / -0.4°F, a charge current of 8A will charge about 15Ah capacity in around 2 hours to replenish the capacity consumed by battery's self-heating process at night.

CHARGING METHODS

SOLAR PANEL(S) & CONTROLLER

Solar Panel

Recommended Power: **≥1000W**

- The battery can be fully charged in one day (with effective sunshine 4.5hrs/day) by 1000W solar panels.
- It may take more than one day to fully charge the battery by ≥1000W solar panels since the duration and intensity of light would be a great factor for their charging efficiency.

Controller

Recommended Charging Mode: **24V (29.2V) LI (LiFePO₄)**

Recommended Charging Current:

25A (0.2C) The battery will be fully charged in around 5hrs.

62.5A (0.5C) The battery will be fully charged in around 2hrs.

Controller Settings

Refer to the below parameters if you need to manually set up your controller. As different types of batteries have different charging modes, **it is recommended to set only the following parameters for LiFePO₄ batteries**. The settings for other types of batteries do not apply to LiFePO₄ batteries except for the following settings.

CHARGING	Charge /Bulk /Boost Voltage	28.8V±0.4V
	Absorption Voltage	28.8V±0.4V
	Over Voltage Disconnect	30V
	Over Voltage Reconnect	28.4V
	Tail Current	2.5A (0.02C)
DIS-CHARGING	Under Voltage Warning	23.2V
	Under Voltage Warning Recover	24.8V
	Low Voltage Disconnect	21.6V
	Low Voltage Reconnect	24V

BATTERY CHARGER

Use 29.2V lithium iron phosphate (LiFePO₄) battery charger to maximize the capacity.

Recommended Charging Voltage: Between **28.4V to 29.2V**

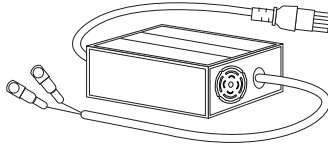
Recommended Charging Current:

25A (0.2C) The battery will be fully charged in around 5hrs.

62.5A (0.5C) The battery will be fully charged in around 2hrs.

Tips

- ① It's recommended to disconnect the charger from the battery after fully charging.
- ② It is not recommended to use alligator clips to connect the charger or load to the battery as the contact area is too small and can cause the terminals to melt and damage the battery.



ALTERNATOR / GENERATOR

Power Queen battery can be charged by an alternator or generator.

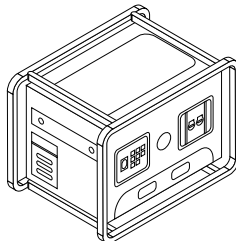
If the alternator/generator **supports DC output**, a **DC-to-DC charger** needs to be added between the battery and the generator; if the alternator/generator **supports AC output**, please refer to the recommendations in "Battery Charger" above to add **a suitable battery charger** between the battery and the generator.

Recommended Charging Voltage: Between **28.4V to 29.2V**

Recommended Charging Current:

25A (0.2C) The battery will be fully charged in around 5hrs.

62.5A (0.5C) The battery will be fully charged in around 2hrs.



HOW TO ESTIMATE

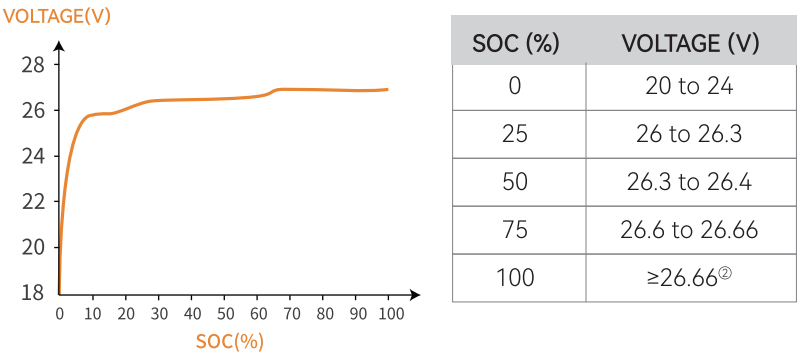
THE BATTERY CAPACITY

STATE OF CHARGE (SOC)

The battery capacity could be roughly estimated by its **resting voltage (not charging/discharging voltage)**^①.

Since the voltage of each battery is slightly different, and the voltage measurement is affected by the measuring instrument, ambient temperature, etc., **the following parameters are for reference only**. The actual SOC of the battery is based on the discharge capacity under load.

Resting Voltage: The voltage is measured after the battery has been disconnected from the charger and loads with zero current, and left alone for 30 minutes.



- ① Based on the characteristics of LiFePO₄ batteries, the voltage measured by all LiFePO₄ batteries during charging/discharging is not the real voltage of the battery. Therefore, after charging/discharging and disconnecting the battery from the power source, the voltage of the battery will gradually drop/increase to its real voltage.
- ② After this battery is protected from overcharge, the tested battery voltage (not the real voltage) will be lower than the real voltage. To calculate the SOC (%), add 0.5V to 0.7V to the tested battery voltage.

RECOMMENDED CABLE SIZING

Battery cables should be properly sized to handle the expected load. Refer to the table below for amperage ratings for different sizes of copper cables.

PVC COPPER CABLE SIZE (AWG/mm ²)	AMPACITY (A)
14 (2.08)	20
12 (3.31)	25
10 (5.25)	35
8 (8.36)	50
6 (13.3)	65
4 (21.1)	85
2 (33.6)	115
1 (42.4)	130
1/0 (53.5)	150
2/0 (67.4)	175
4/0 (107)	230

The above values are from NEC Table 310.15(B)16 for copper cables rated at 167°F (75°C) operating at an ambient temperature not exceeding 86°F (30°C). Cables longer than 6 feet (1829 mm) or ambient temperature higher than 86°F (30°C) may require heavier gauges to avoid excessive voltage drops with undersized ones.

SERIES / PARALLEL

CONNECTION

THE PREMISE OF CONNECTION

To connect in series or /and parallel, batteries should meet the below conditions:

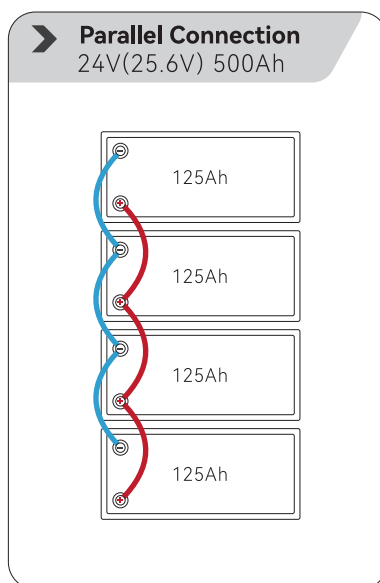
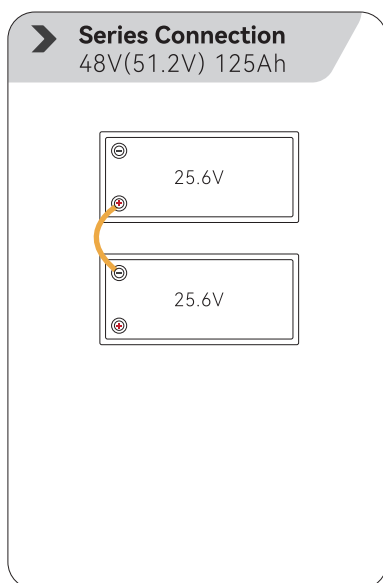
- identical batteries with the same battery capacity (Ah) and BMS (A);
- from the same brand (as lithium battery from different brands has their special BMS);
- purchased in near time (within one month).

LIMITATION FOR SERIES/PARALLEL CONNECTION

Support connecting **up to 8 identical batteries** for up to:

2 in series as **48V (51.2V)** battery system or

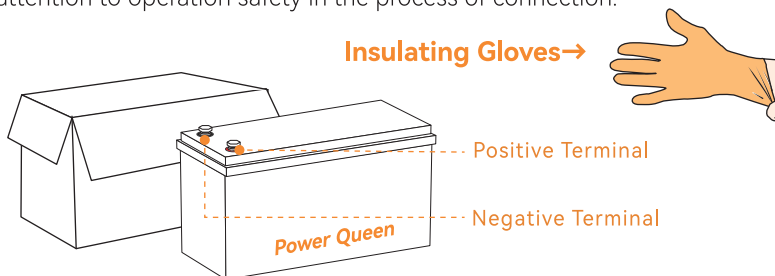
4 in parallel as **500Ah** battery system.



HOW TO CONNECT BATTERIES

Step 1 Wear Insulating Gloves

Wear insulating gloves for protection before connecting. Please pay attention to operation safety in the process of connection.



Step 2 Voltage Balancing Before Connection

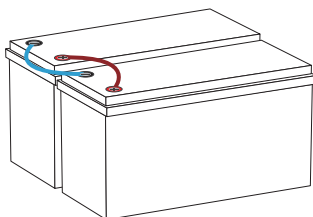
Below two steps are necessary to reduce the voltage difference between batteries and let the battery system perform the best of it in series or/and in parallel.

➤ Step①

Fully charge the batteries separately.
(voltage at rest: $\geq 26.66V$)

➤ Step②

Connect all of the batteries **in parallel**, and leave them together for **12~24hrs.**



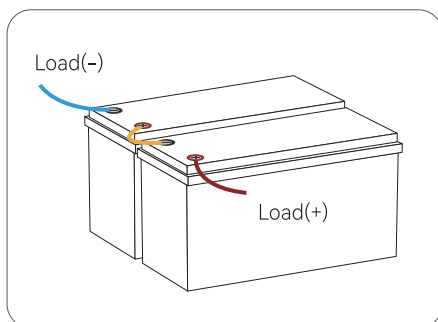
➤ Step③

They're now ready for the **connection.**

Step 3 Battery-to-Battery Connection

#1 Connect Batteries in Series

⊕ to ⊖



After series connection, the **voltage** of the battery system will be doubled according to the number of batteries you connect.

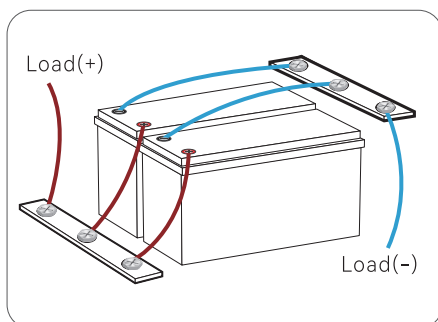
E.g. If two 24V 125Ah batteries are connected in series, the battery system will be 48V (51.2V) 125Ah.

#2 Connect Batteries in Parallel

⊕ to ⊕

⊖ to ⊖

Refer to Page 13 for total input & output connection.



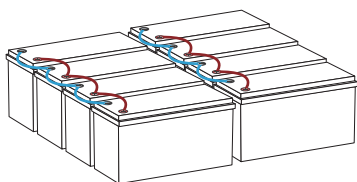
After parallel connection, the **capacity** of the battery system will be doubled according to the number of batteries you connect.

E.g. If two 24V 125Ah batteries are connected in parallel, the battery system will be 24V (25.6V) 250Ah.

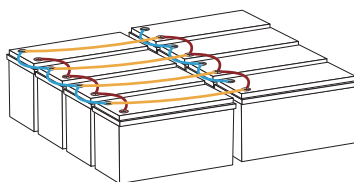
#3 Connect Batteries Both in Series & Parallel

Connect in parallel first, then series.

➤ Step ① Connect the batteries in **parallel**.



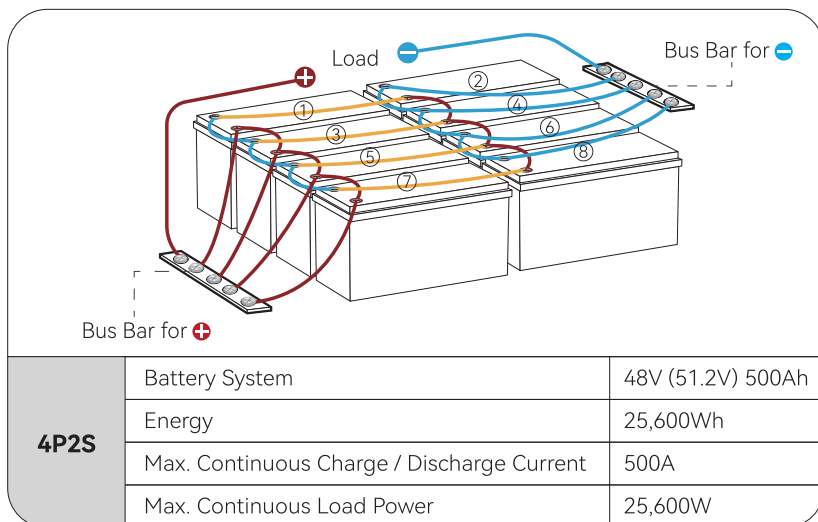
➤ Step ② Connect the paralleled battery systems in **series**.



Step 4 Total Input & Output Connection

Use two **bus bars** (instead of battery terminals) to connect all the positive and negative output/input cables, ensuring that the input & output currents of each battery are balanced. (Not required when connecting batteries only in series.)

It is not recommended to use one terminal as the total positive or negative output/input of the battery system as the connected terminals may heat up or even melt if the total output/input current of the battery system is too high.

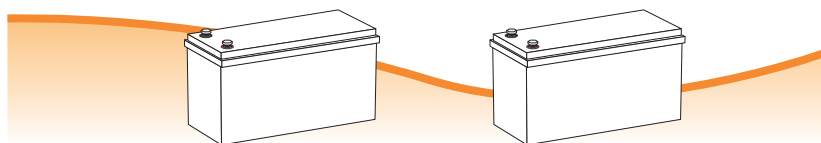


① As **-** of ① / ③ / ⑤ / ⑦ is connected in series with **+** of ② / ④ / ⑥ / ⑧, please do not connect **-** of ① / ③ / ⑤ / ⑦ with **-** of load or **+** of ② / ④ / ⑥ / ⑧ with **+** of load, otherwise the battery system will fail to connect in series.

② Please do not connect in reverse order, which may affect the use of the batteries.

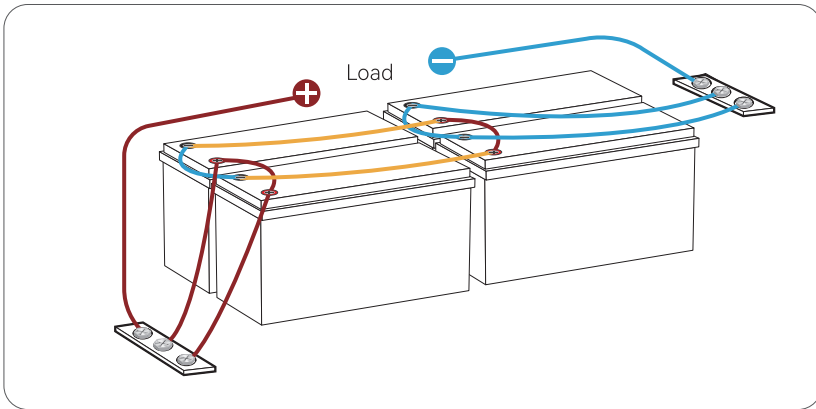
Step 5 Rebalancing Every 6 Months

It is recommended to rebalance the battery voltage every six months following Step 2 on Page 11 if you're connecting multiple batteries as a battery system, as there might be voltage differences after six months of the battery system running.

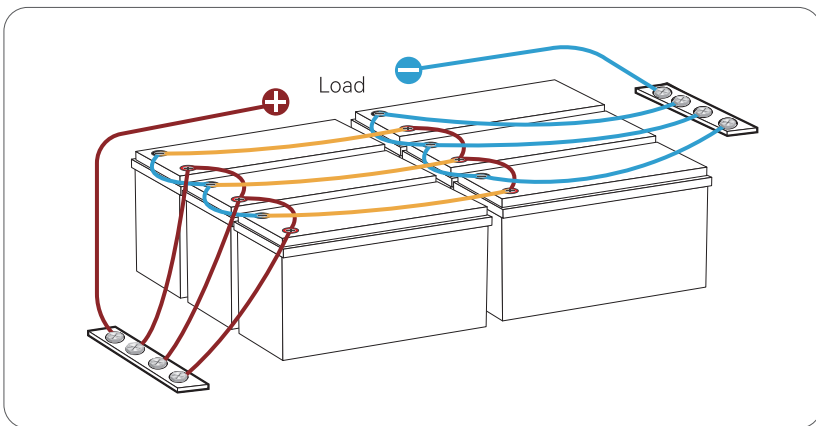


Wiring Diagram Reference

2P2S	Battery System	48V (51.2V) 250Ah
	Energy	12,800Wh
	Max. Continuous Charge / Discharge Current	250A
	Max. Continuous Load Power	12,800W



3P2S	Battery System	48V (51.2V) 375Ah
	Energy	19,200Wh
	Max. Continuous Charge / Discharge Current	375A
	Max. Continuous Load Power	19,200W

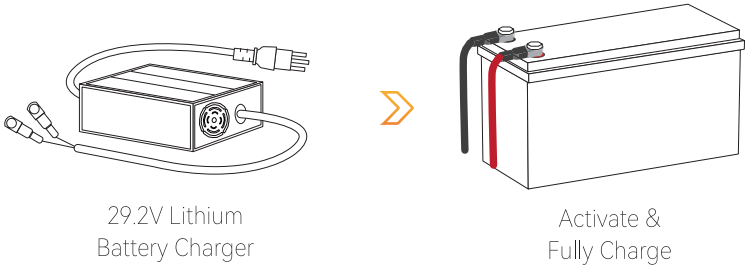


WHAT TO DO WHEN THE BATTERY CAN'T DISCHARGE?

When the battery ① shutdown; ② voltage < 18V; ③ discharge switch is off on the Power Queen APP, check the discharge switch first, if it is off, turn on discharge switch via Power Queen APP. If it still can't discharge, try one of below methods to activate the battery.

➤ Method ①

Activate and charge the battery with a 29.2V lithium battery charger. If it fails, disconnect the load, reinsert the AC input of the charger to activate and charge the battery.



Note: The lead-acid charger cannot activate the LiFePO₄ battery.

➤ Method ②

Connect a 24V LiFePO₄ controller/inverter charger/solar inverter charger to charge the battery for 3~10 seconds.



After successful activation (voltage>20V) and fully charged by the normal charging method, the battery can be used normally.



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