YOLIQUE

SMART LIFEPO4 BATTERY

YOUR POWER EXPERT

12V 120AH

SMART LIFEPO4 BATTERY USER MANUAL

Thank you for choosing our product! For safety informationand product specifcation, please read this manual carefully before use.

YOLIQUE invests heavily in our own R&D team to engineer premium $LiFePO_4$ batteries, crafts premium $LiFePO_4$ batteries with starting function that blend cutting-edge safety with enduring performance.

Our self-developed smart BMS delivers industry-leading performance – safe, precise, and proven.

Choose YOLIQUE. Where professional-grade engineering meets sustainable innovation and excellent customer service to help you get started easily, anytime, anywhere.

------YOLIQUE

Product Introduction

This dual-purpose lithium battery is designed for trucks, boats, yachts and commercial vehicles, supporting both engine starting and deep-cycle energy storage. Built with brand-new Grade A automotive-grade cells, it features intelligent Bluetooth monitoring, self-heating charging and an advanced smart BMS to reduce energy loss and extend service life.

BMS Protection System

Provides reliable battery control and safety protection.

Brand New Automotive Grade A Cells

Modular power supply for enhanced safety, deeper discharge capability, and superior durability.

Polymer Heating Film

Adopt new polymer PI heating film, heating speed is fast, heat evenly.

Polymer Flame-Retardant Shell

High and low temperature resistance, water proof, fire proof, flame proof, explosion proof.It can easily cope with the impact of various complex weather on the battery.

Packing List

YOLIQUE LiFePO4 Battery
12V 120Ah
Lithium Battery *1
Terminal Bolt *2
User Manual *1

Terminal Bolt*2

YOLIQUE 12V 120Ah LiFePO4 Battery

User manual

Technical Parameter

Nominal Voltage	12.8V
Nominal Capacity	120Ah
Energy	1536Wh
Output Power	1536W
Starting Current	1200A
Cycle Life	4000 Cycles (77°F、0.5C、90%DOD)
Charge Method	CC/CV
Charge Voltage	14.4±0.2V
Maximum Charging Voltage	15V
Maximum Continuous Discharge Current	120A
Maximum Continuous Charging Current	120A
Operating Temperature Range	-22°F+140°F（-30°C~+60°C）
Operating Voltage Range	10~14.6V
Battery Size/BCI	L:330mm(12.99") W:173mm(6.81") H:210mm(8.27")/Group 31
Weight	12±1KG(26.46±2.2LB)
IP Rating	IP67
Chemistry	Lithium Iron Phosphate (LiFePO4)
Terminal Type	3/8 to 5/16 Terminal Stud
Charging Temperature	-4°F+140°F（-20°C+60°C）
Discharge Temperature	-22°F+140°F（-30°C+60°C）
Storage Temperature	-22°F+140°F（-30°C+60°C） Recommended Temperature 77°F (25°C)

MONITORING VIA YOLIQUE APP

YOLIQUE 12V 120Ah LiFePO4 Battery,integrated with Bluetooth 5.0, enables accurate and effortless real-time tracking and management of the battery status.

1 Download the YOLIQUE APP and register your account.

Warm reminder:

The APP can be downloaded by scanning the QR code below. You can also download the App by searching for "YOLIQUE HUB" in the App Store.

YOLIQUE HUB

Download on the App Store

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

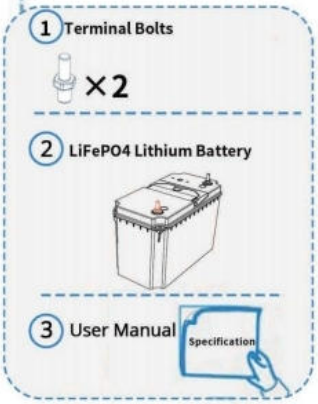
FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.
This device 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 device 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 device 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:
Orient 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 receiveris connected.
Consult the dealer or an experienced radio/TV technician for help.
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.
Caution: Any changes or modifcations to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

Caution Before Use

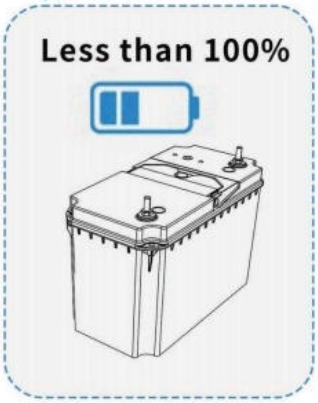
Thank you for purchasing YOLIQUE LiFePO4 Battery! Please read this product manual and save for future reference,Contact us at service@yolique.com for customer support.

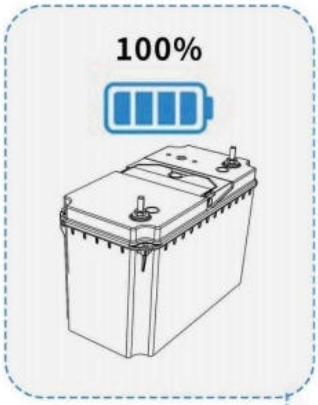
There are three items in the package . Please check to make sure there is no missing parts.



After unpacking the box, wear insulating gloves for battery installation and wiring.

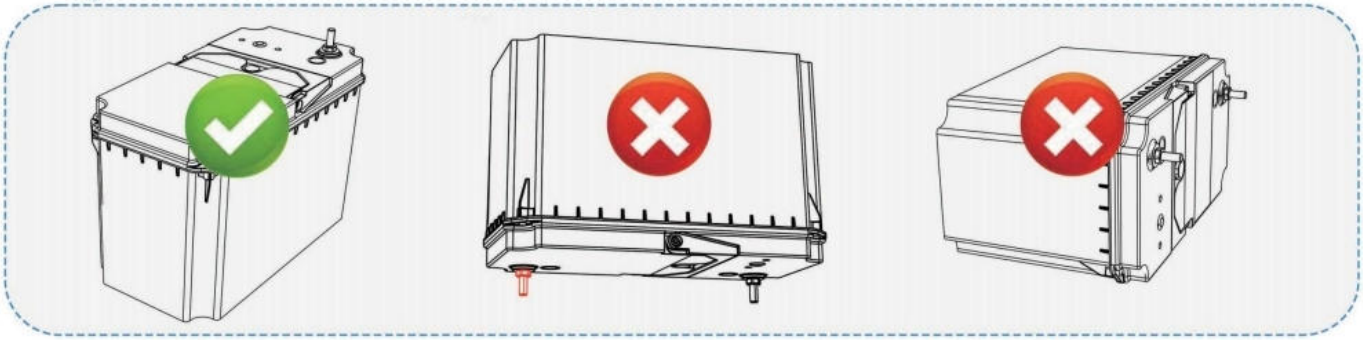
Due transportation safety required the battery is not fully charged .



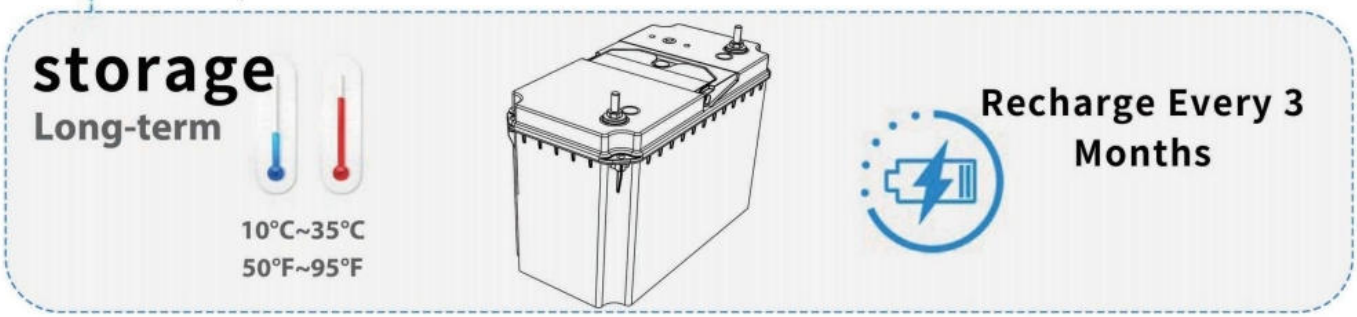


Please fully charge the battery before first use.

Install the battery upright with terminal bolt facing up.If you have any other installation requirements, please contact **service@yolique.com**



Yolique batteries can be used at temperatures from -22°F to +140°F. It can be stored for a long time at a temperature of 50°F~95°F. It is best to store the battery at 80% charge, and for better long-term storage, it is best to charge it every three months.



CATALOGUE

Usage Scenario

YOLIQUE 12V 120AH LIFEPO4 BATTERY APPLICATION SCENARIO

Truck

Marine

Home Energy System

Camping

RV

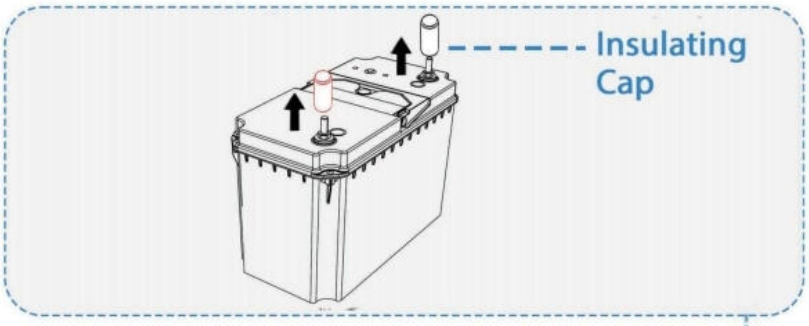
Engineering Vehicle

OTHER APPLICATIONS

Suitable for truck air conditioning units, truck refrigerators, off-grid solar systems, backup power supply, and portable energy storage.
Not intended for installation in passenger vehicle engine compartments.

Battery First Use Method

1.Wear insulating gloves before connecting.

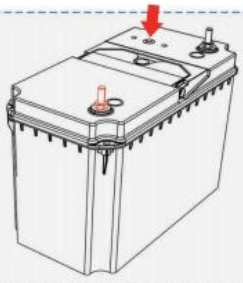


2. Preparatory Work

Open the package to confirm that accessories and battery are intact.Remove the battery and take off the insulating cap.This battery supports two connection types: stud type and threaded hole type.

3.Battery Activation

Press activation button once, wait 5 seconds, then press twice to power on the battery.

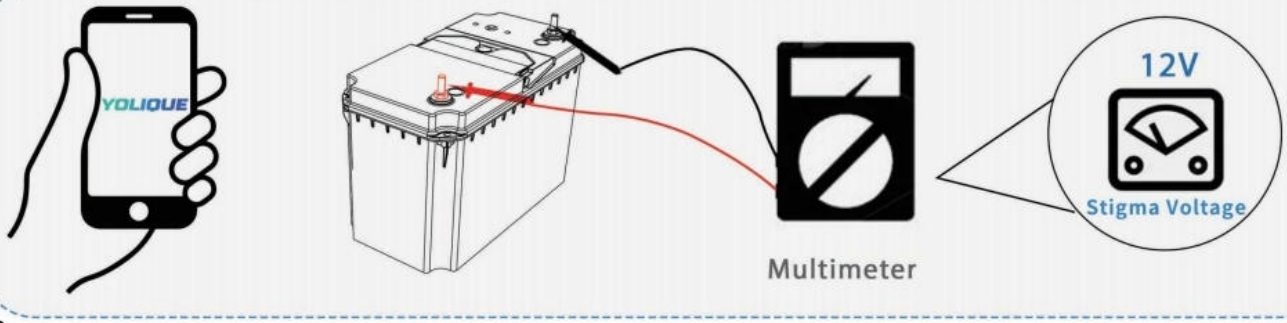


Activate: Press once
Power On: Press twice
Self-Heating (After Power On): Press three times
Turn Off: Long press for more than 5 seconds

This battery has a self-developed BMS with comprehensive low-power protection.
1. Save Mode (idle > 48h or SOC <10%): Use App Force Start or manual activation to wake.
2. Sleep Mode (idle >12 days): Manual activation only, then re-pair App.
General Manual Activation: Press once, wait 5s, press twice.

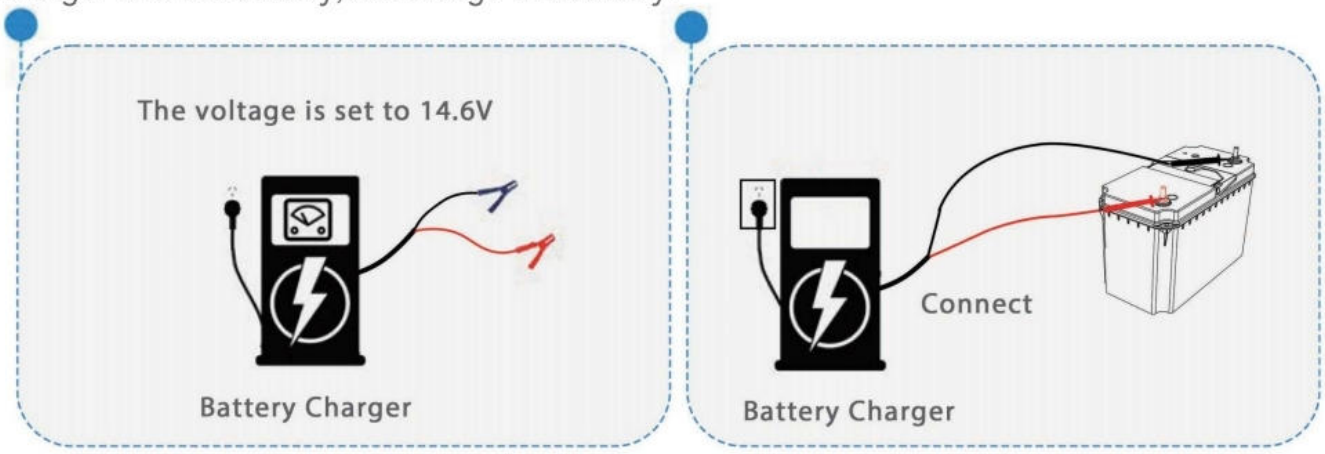
4.Voltage Measurement

After activating the battery, you can check the voltage in two ways:
1.Via the YOLIQUE App
2.With a multimeter
For engine starting: Battery is ready for use when terminal voltage is above 13.0V.
For all other applications: Battery is ready for use when voltage is above 12.0V.
If voltage drops below 12.0V, please recharge the battery first.If the battery will not charge properly, contact our support team at:service@yolique.com

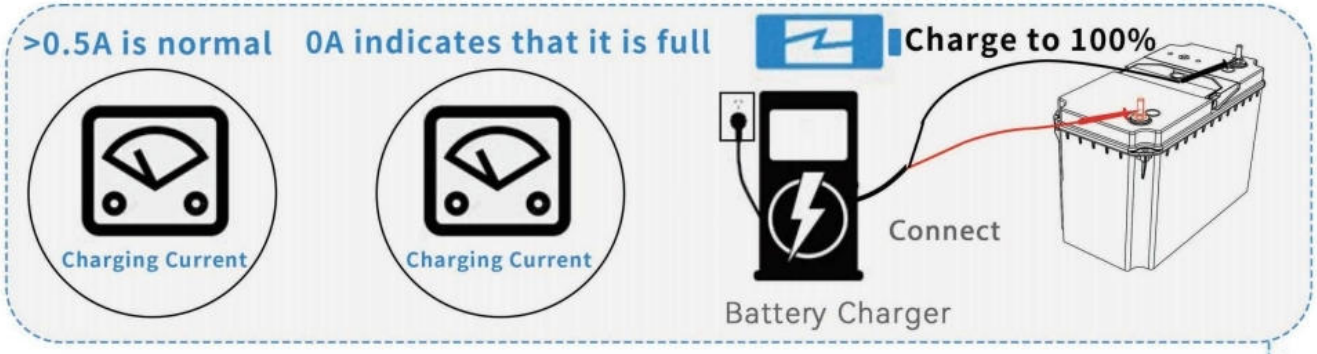


5.Charge The Battery

Open the charger, adjust the charging voltage of the charger to 14.6V. Connect the charger and the battery,and charge the battery.



Observe the charging current, if the current is greater than 0.5A, it means that the charging is normal, During the charging process, the current will gradually decrease. If the charging current is 0, it means that the battery is full.



Suggestion charging current.

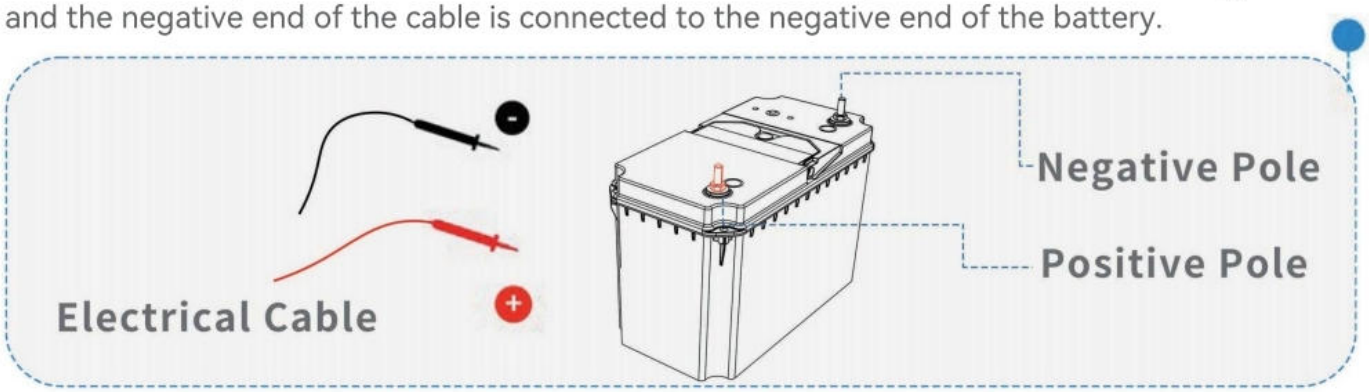
The 24A (0.2C) battery will charge to 100% in about 5 hours.
The 60A (0.5C) battery will charge to 100% in about 2 hours.

Tips:

When connecting to the grid, connect the charger to the battery first to avoid sparks.

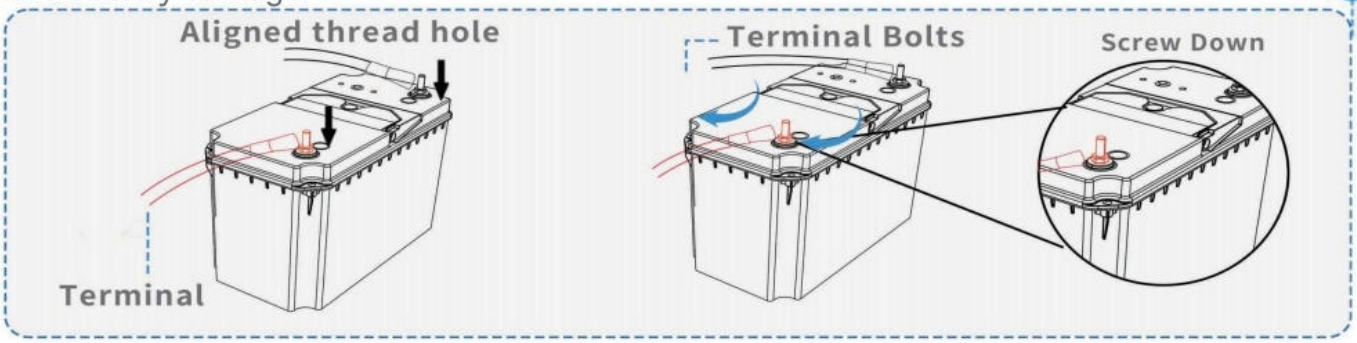
6.Check the positive and negative terminals of the cable before connecting the appliance.

Positive and negative connections can damage batteries and other electrical devices. Ensure that the positive end of the cable is connected to the positive end of the battery, and the negative end of the cable is connected to the negative end of the battery.



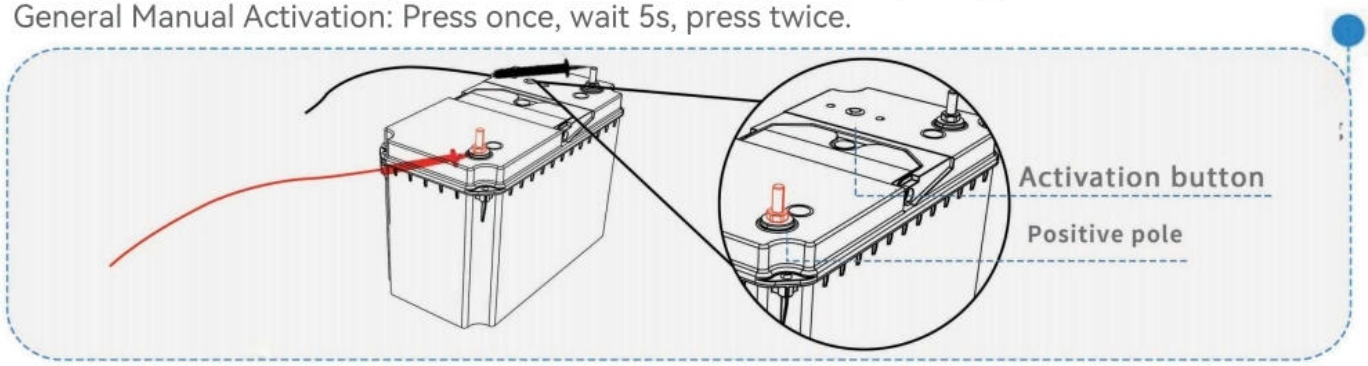
7.Connecting Appliance

This battery supports two connection types: stud connection and threaded hole connection.
For threaded hole connection: Take out the terminal bolt, align the electrical terminal with the battery threaded hole, and tighten securely.
For stud connection: Firmly fasten the electrical terminal onto the stud.
Note: If the battery is activated, a slight spark may occur under high current, which is normal.Ensure all connections are fully tightened. Loose terminals may cause overheating and battery damage.



8.After making sure that the electrical appliance is properly connected to the battery.

This battery has a self-developed BMS with comprehensive low-power protection.
1. Save Mode (idle > 48h or SOC <10%): Use App Force Start or manual activation to wake.
2. Sleep Mode (idle >12 days): Manual activation only, then re-pair App.
General Manual Activation: Press once, wait 5s, press twice.



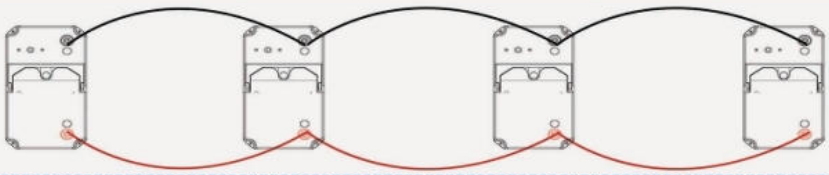
Parallel Connection

In order to increase the service time of the appliance, the battery can be used in parallel. (It is not recommended that the power used after the parallel connection is greater than the output power of a single battery. Otherwise, the risk of battery damage is increased).

Connection Premise

From the same brand (because different brands have their own special BMS).
Purchased in near time (within one month).It has the same battery capacity and the same voltage (the voltage difference before shunt is within 0.5V).
A maximum of four 120Ah battery systems can be connected in parallel.

Tips: Do not use high current loads for long periods of time



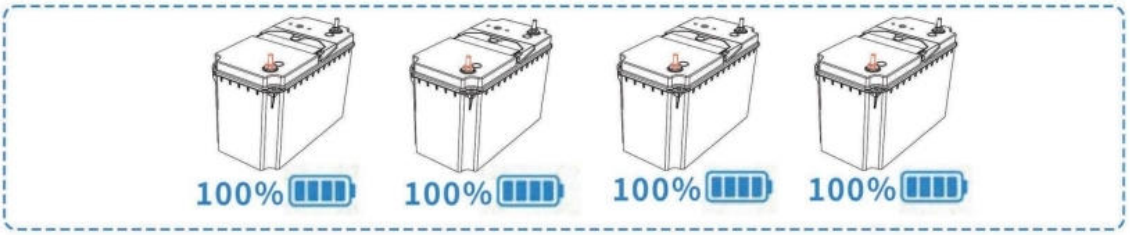
HOW TO CONNECT BATTERIES

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

Stepl Voltage Balancing Before connection

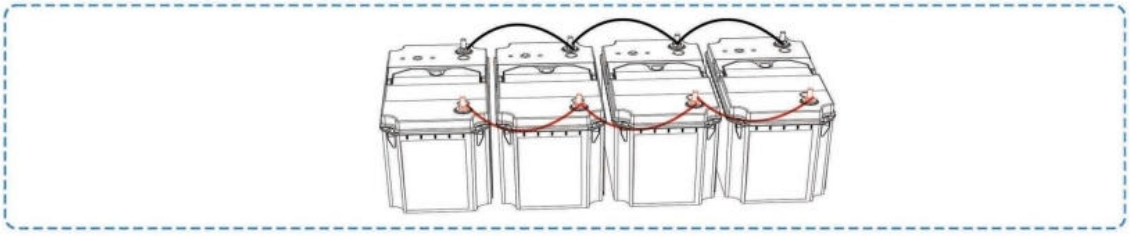
Below two steps are necessary to reduce the voltage difference between batteries and let the battery system perform the best of it in inparallel.

1.Fully charge the batteries separately.



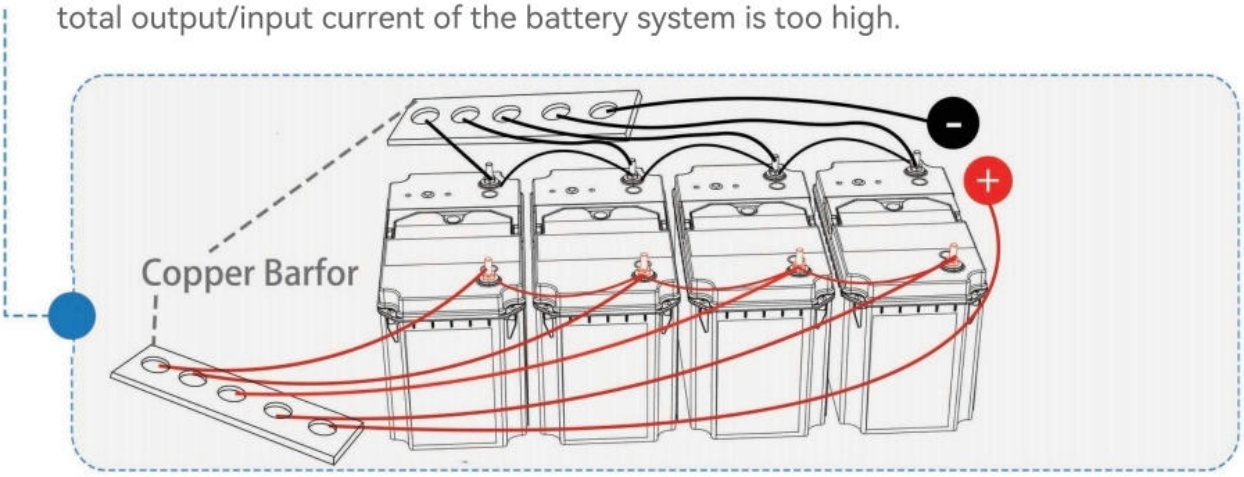
2.Connect all of the batteries in parallel, and leave them together for more than 2hrs.

When connected in parallel, the capacity of the battery system will increase by a corresponding multiple according to the number of batteries you connect.For example, if n 12V 120Ah batteries are connected in parallel, the battery system will be(120*n)Ah.



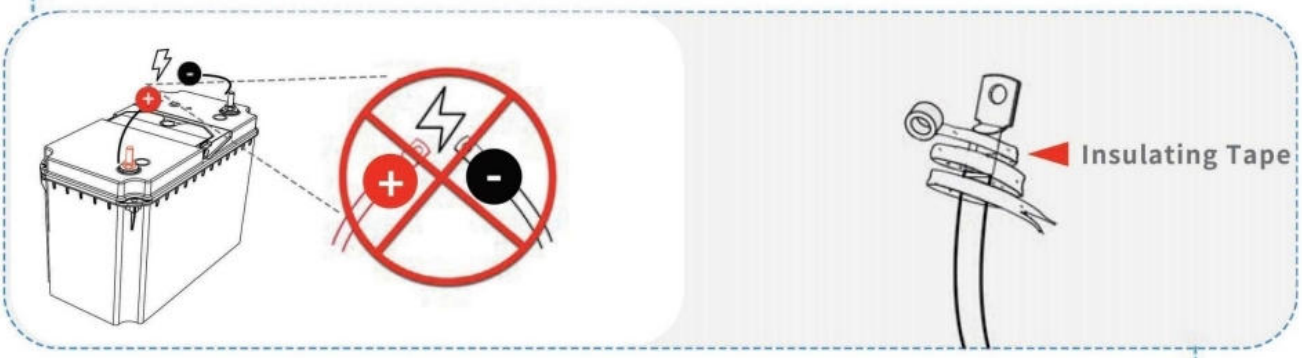
Step2 TotalInput & Output connection

Use two copper 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,As the connected terminals may heat up or even melt if the total output/input current of the battery system is too high.



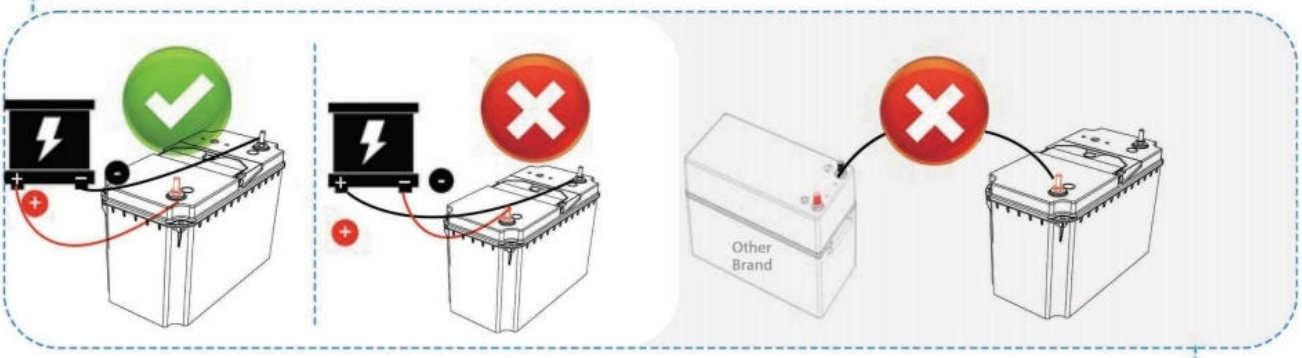
Operation Precautions

Avoid direct contact between the terminals of the positive and negative wires connected to the YOLIQUE battery, which may cause the battery to short-circuit and become unusable.



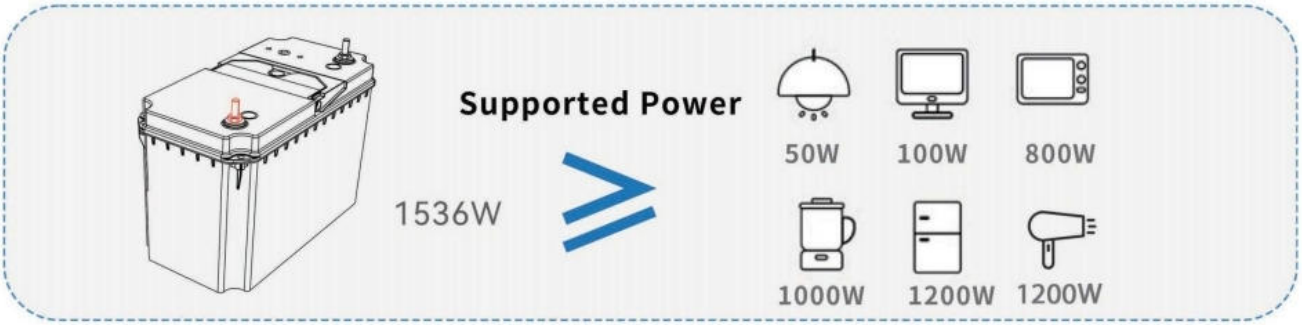
We recommend wrapping the terminals with insulating tape during wiring.

Make sure the battery is properly connected to the charger and do not reverse the positive and negative connections.



Series or parallel connection is not allowed for batteries of different brands or specifications.

Before connecting the appliance, ensure that the power supported by the battery can meet the power requirements of the appliance. (if you are not sure,please contact service@yolique.com for further assistance.)

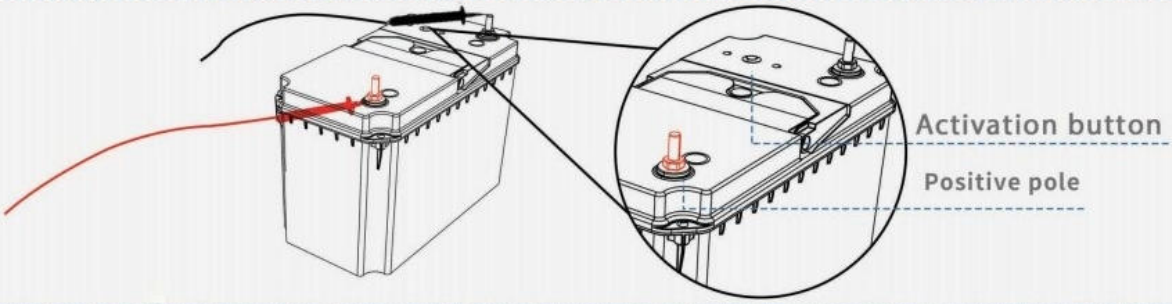


Trouble Shooting

1.Battery activation method

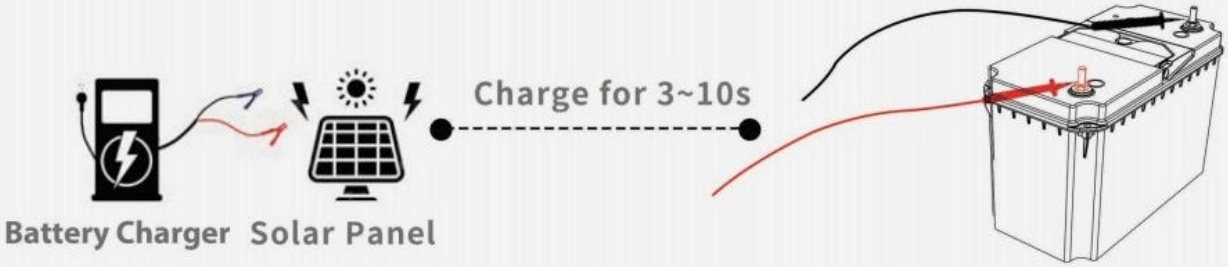
Method 1: Regular Activation

Press activation button once, wait 5 seconds, then press twice to power on the battery.



Method 2: Charge Activation

Connect to a supported Battery Charger or solar panel to charge it.



2.Battery heating and insulation policy

The battery automatically enables self-heating in low-temperature conditions.
For long-term storage, charge the battery to above 80% SOC before use.
Within 24 hours of inactivity, self-heating activates automatically below 0°C (32°F) and stops at 5°C (41°F).
After 24 hours of inactivity or at low battery level, the heating function will disable automatically to conserve power.
Heating can also be activated manually through the APP or battery button. Refer to the instructions above for operation details.

3.The battery can't be charged

If the battery cannot be charged, you can activate the battery first and then charge it.
If you still cannot charge after 3 consecutive activations (Each activation requires a 10-minute interval), please contact us at service@yolique.com to help solve the problem.

4.The battery can't discharge

If the battery does not discharge, try to charge the battery for 20 minutes before discharging. If it can be discharged, it proves that the power is insufficient and needs to be used after the battery is full, if the battery does not charge, please open yolique App to view the trouble tips, if it still does not discharge after charging,please contact us at service@yolique.com to help resolve the problem.

Frequently Asked Questions

1. How Long Does a Dual-Purpose Battery Last?

Multiple factors affect battery lifespan, including climate, temperature, charge cycles, depth of discharge (DOD), charge and discharge current, charging method, vibration, and stationary idle time.

Battery manufacturers rate cycle life by discharge level and cycling frequency. Higher DOD shortens cycle life, while lower discharge percentages allow more charge-discharge cycles for longer service life.

Our dual-purpose battery achieves around 4,000 cycles at 90% DOD. With proper maintenance, it lasts about three times longer than conventional lead-acid batteries under the same conditions, delivering an 8–10 year service life in normal use. Actual cycle life varies with usage habits and operating conditions.

2. What makes your dual purpose battery different from others?

Our dual-purpose lithium battery uses brand-new grade A cells, combining engine starting and deep cycle power in a single unit. Built with our in-house intelligent BMS, it delivers top-tier safety and energy efficiency.

It provides strong, dependable cranking power for trucks, boats and marine engines, and also works as a high-performance deep cycle battery for energy storage use. It is perfect for RVs, off-grid lifestyles, solar power systems and home backup power.

It is equipped with low-temperature self-heating and charging self-heating functions, keeping the battery working steadily even in extreme cold conditions. The built-in Bluetooth enables real-time battery status check via mobile APP. It also features a flame-retardant housing for higher safety protection.

It supports up to 4,000 cycles at 90% DOD, greatly outperforming traditional lead-acid batteries in service life. With outstanding durability, wide compatibility, stable output, smart monitoring and full safety design, it is the ideal all-in-one solution for both engine starting and energy storage needs.

3.Need Help? We're Here for You!

Find us on Amazon:

Go to "Your Orders", Find your order → Select "Contact Seller" – write us a message and we'll get back to you fast.

Contact us via Email:

Drop us a line at service@yolique.com – we'll get back to you within 48 hours (usually much faster).

We're committed to making things right for you. Please don't hesitate to contact our customer service team before leaving any feedback – we can almost always solve your issue immediately.

Important Safety Guidelines

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

2.Please keep the battery away from heat sources, sparks, flames, and hazardous chemicals.

3.Place the battery in a place with good ventilation and heat dissipation to prevent overheating and damage to the battery.

4.Size the battery cables and connectors appropriately. 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.

5.Please tighten all cable connections,as loose cable connections can cause terminal meltdown or fire.

6.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. Place the battery on a flat area to avoid tilting or slipping.

7.Do not press heavy objects on the battery for a long time; otherwise, internal short circuit may occur.

8.DO NOT immerse the battery in water whether the battery is in use or on standby.

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

10.Reverse polarity can damage batteries and other electrical devices. Ensure that the positive end of the cable is connected to the positive end of the battery, and the negative end of the cable is connected to the negative end of the battery.

11.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.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.

Warning

- Please wear proper personal protective equipment when working on the battery.
- Battery installation and maintenance must be performed by trained and certified technicians.
- Improper use of the battery can lead to battery failure or other potential damage.
- Improper configuration,installation, or use of related equipment in the battery system may damage the battery and other related equipment.
- Batteries are potentially dangerous and proper precautions must be taken during operation and maintenance.
- Failure to follow the warnings above can result in potential damage.
- Do not install this battery in passenger vehicle engine compartments.

If you have any questions or need any help, welcome to contact us at service@yolique.com. YOLIQUE is always here for you!

YOLIQUE

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High-tech Zone, Suzhou