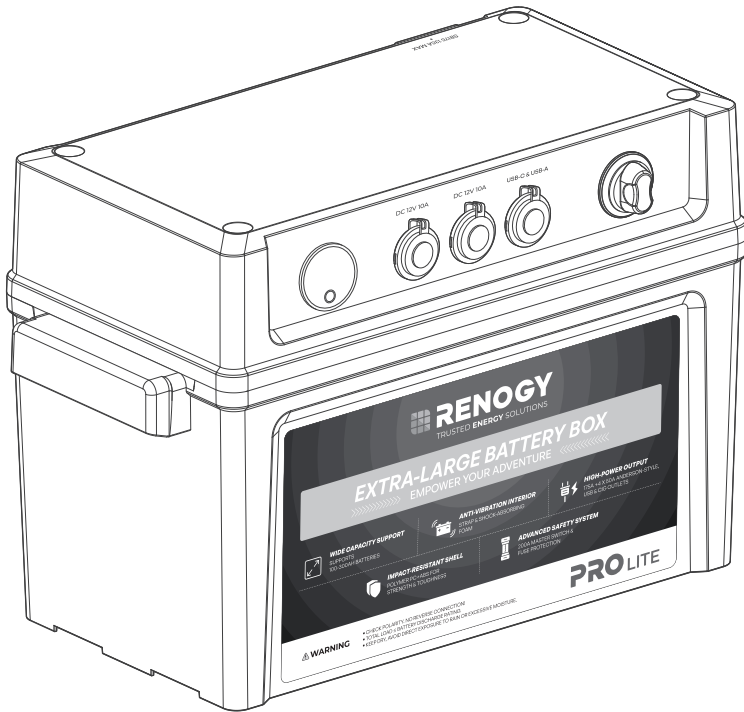


RENOGY

Extra-large Battery Box

ROAO5PB-SCA-G1-AU

VERSION A0
February 2, 2026



USER MANUAL

Before Getting Started

The user manual provides important operation and maintenance instructions for Renogy Extra-large Battery Box (hereinafter referred to as battery box). Read the user manual carefully before operation and save it for future reference.

Failure to observe the instructions or precautions in the user manual can result in electrical shock, serious injury, or death, or can damage the battery box, potentially rendering it inoperable. It is recommended that the Battery box should be installed by qualified electrical technicians as electricity knowledge is required.

- Renogy ensures the accuracy, sufficiency, and the applicability of information in the user manual at the time of printing due to continual product improvements that may occur.
- Renogy assumes no responsibility or liability for personal and property losses, whether directly and indirectly, caused by the user's failure to install and use the product in compliance with the user manual.
- Renogy is not responsible or liable for failures, damages, or injuries resulting from repair attempted by unqualified personnel, improper installation, and unsuitable operation.
- The illustrations in the user manual are for demonstration purposes only. Details may appear slightly different depending on product revision and market region.
- Renogy reserves the right to change the information in the user manual without notice. For the latest user manual, visit [renogy.com](https://www.renogy.com).

Disclaimer

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1. General Information

1.1. Symbols Used

The following symbols are used throughout the user manual to highlight important information.

 **WARNING:** Indicates a potentially hazardous condition that could result in personal injury or death.

 **CAUTION:** Indicates a critical procedure for safe and proper installation and operation.

 **NOTE:** Indicates an important step or tip for optimal performance.

1.2. Symbols on Product

Symbol	Description	Symbol	Description
	Read and understand the instruction manual before use.		For indoor use only
	Do not dispose of the product together with household waste.		Materials used are recyclable.

1.3. Introduction

The Renogy Extra-large Battery Box is a powerful plug-and-play power system that addresses issues of battery installation clutter, insufficient connections, and safety. It is suitable for use in boats, RVs, and towing applications. Internally compatible with Group 24/27/31 batteries, the main power cables support up to 135A discharge/charging, with wiring designed to ensure safety and reliability.

It is equipped with a 200A master switch and multiple ports, including four 50A anderson-style input/output ports, and one anderson-style SB175 135A port, as well as dual USB sockets (USB-C PD 36W + QC3.0 30W) and two 12V cigarette lighter sockets. For circuit protection, it features multiple self-resetting fuses to ensure safety and stability during charging and discharging.

1.4. Key Features

- **Plug-and-Play**
Easily convert your battery into a powerful power system suitable for various off-grid scenarios.
- **Size Compatibility**
The internal battery compartment is compatible with Group 24/27/31 battery sizes.
- **High Current Capacity**
Supports up to 135A discharge/charging, accommodating high-demand devices.
- **Safe Wiring**
The cable layout is clear to avoid sharp edge contact, reducing wear and the risk of short circuits.
- **Main Switch**
Equipped with a 200A master switch to ensure safe operation.
- **Multiple Ports**
Includes four 50A anderson-style input/output ports, and one anderson-style SB175 135A port, as well as USB-C and cigarette lighter ports to meet diverse power needs.
- **Comprehensive Protection Mechanism**
Features multiple self-resetting fuses to safeguard the charging and discharging processes.
- **Durable Material**
Made from PC+ABS material, which is more robust than standard PP material.

● **Equipped with Digital Display**

The device features a digital display that can show voltage and current in real-time, and it needs to be configured according to the battery parameters.

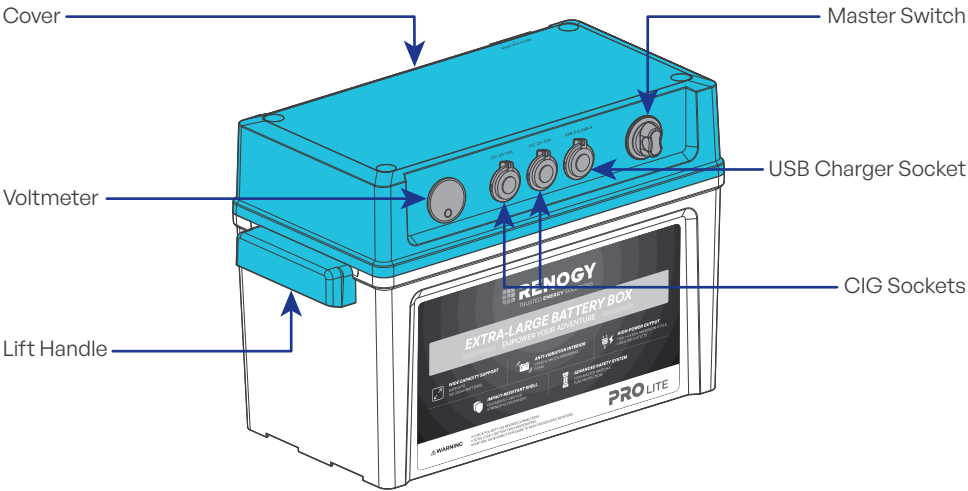
1.5. SKU

Renogy Extra-large Battery Box	ROAO5PB-SCA-G1-AU
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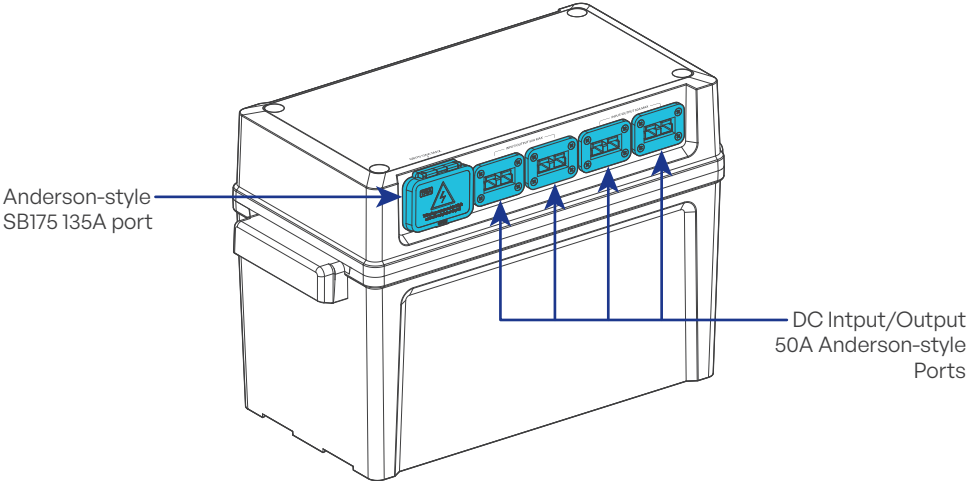
2. Get to Know Renogy Extra-large Battery Box

2.1. Product Overview

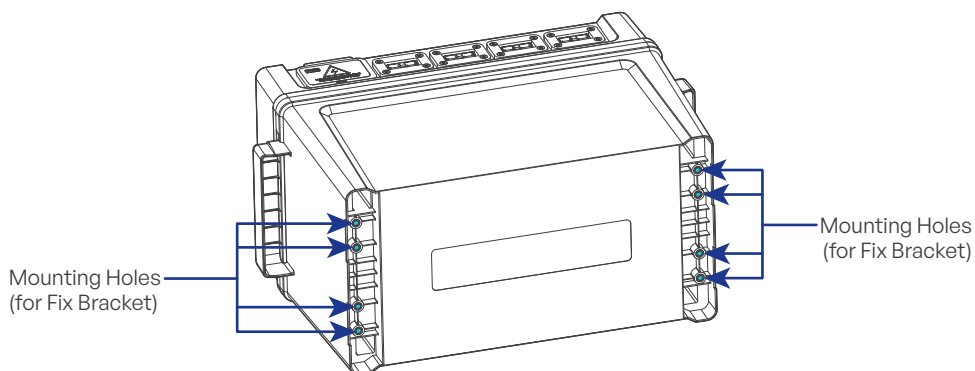
■ Front View



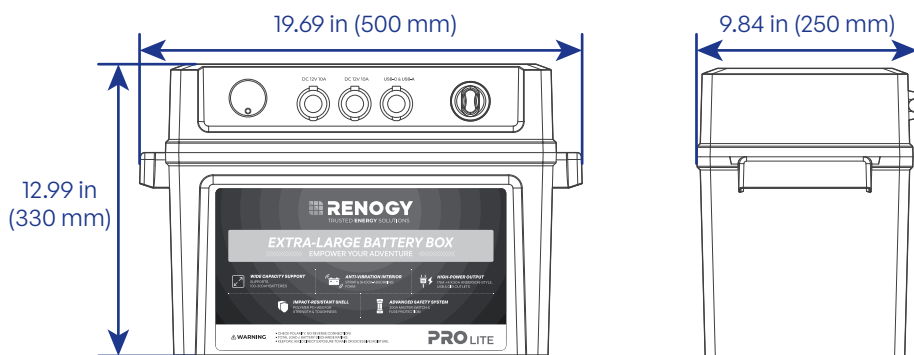
■ Rear View



Bottom View



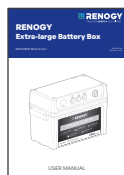
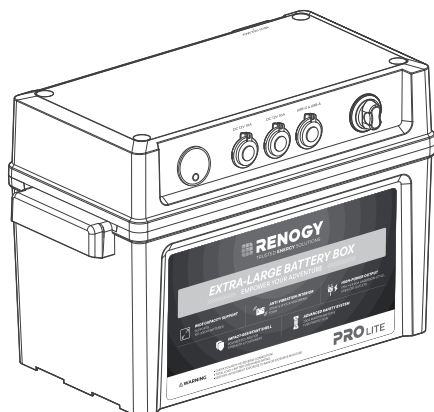
2.2. Dimensions



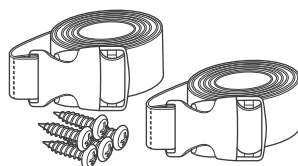
i Dimension tolerance: ± 0.02 in (0.5 mm)

2.3. What's In the Box?

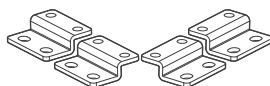
Renogy Extra-large Battery Box $\times 1$



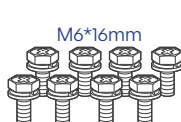
User Manual $\times 1$



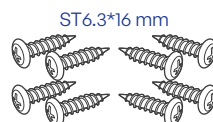
Strap $\times 2$ and
Strap Screw $\times 5$ (3 extra)



Fix Bracket $\times 4$ (optional)



Fix Bolt $\times 8$ (optional)



Mounting Screw $\times 8$ (optional)

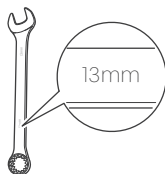
-  Make sure that all accessories are complete and free of any signs of damage.
-  The accessories and product manual listed are crucial for the installation, excluding warranty information and any additional items. Please note that the package contents may vary depending on the specific product model.

3. Preparation

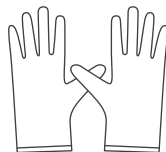
3.1. Recommended Tools



Phillips
Screwdriver (#3)



Wrench
(17/32 in)



Insulating
Gloves

3.2. Check the Battery Box

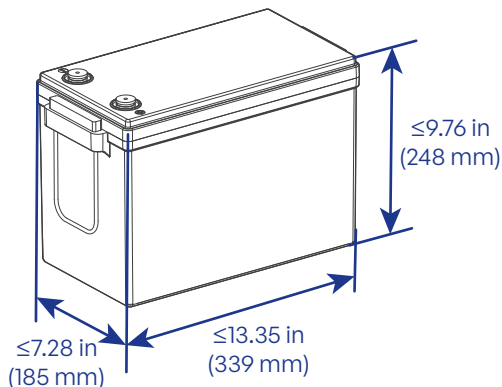
Inspect the battery box for any visible damage including cracks, dents, deformation, and other visible abnormalities. All connector contacts shall be clean, free of dirt and corrosion, and dry.

-  Do not use the battery box if there is any visible damage. For a damaged issue, please contact Renogy customer service via renogy.com/contact-us.

3.3. Check the Battery

The battery box can accommodate 12V deep-cycle ternary lithium batteries, lithium iron phosphate batteries, and lead-acid batteries, supporting Group 24/27/31 sizes. Please refer to the image below to ensure that the battery dimensions are compatible; otherwise, it may not fit in the battery box.

-  Please use a certified battery for installation in the battery box, ensuring that the battery complies with local laws and regulations and meets certification standards.

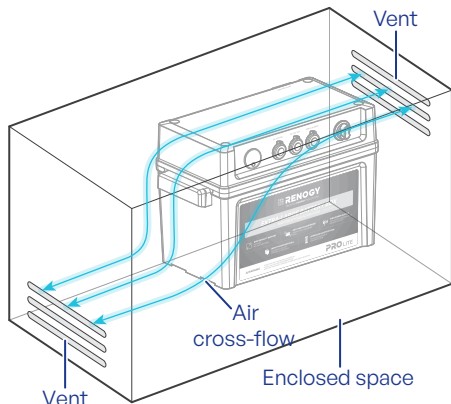


Inspect the battery for any visible damage including cracks, dents, deformation, and other visible abnormalities. All connector contacts shall be clean, free of dirt and corrosion, and dry.

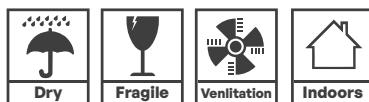
- ⚠ Do not touch the exposed electrolyte or powder if the battery is damaged.
- ⚠ If uncovered electrolyte or powder contacts your skin or eyes, flush it out immediately with plenty of clean water and seek medical attention.
- ⚠ Confirm the polarities of the devices before connecting battery box to a battery. A reverse polarity contact can result in damage to the battery box, thus voiding the warranty.

3.4. Plan a Mounting Site

For optimal battery box performance, it is recommended to install the battery box in a clean, cool, and dry location, free from any accumulation of water, oil, or dirt. Accumulation of such materials on the battery box can lead to current leakage, self-discharge, and even short-circuiting.



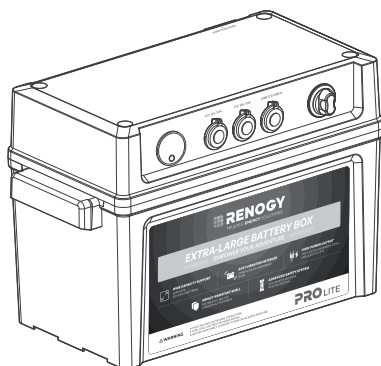
 -4°F to 149°F
 (-20°C to 65°C)
  0% to 95%
 (no condensation)



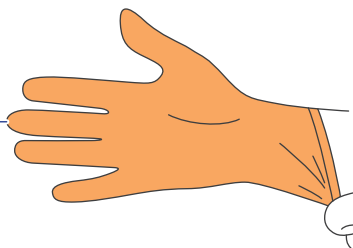
- ⚠ Sufficient airflow must be provided to prevent excessive heat build-up and to minimize temperature variation between the connected batteries.

4. Installation

4.1. Wear Insulating Gloves



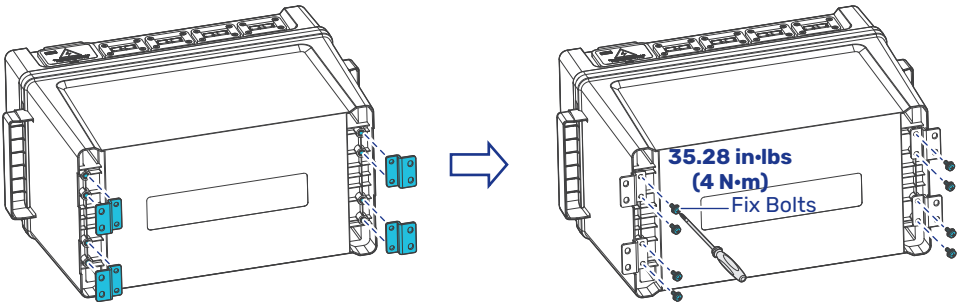
Insulating Gloves



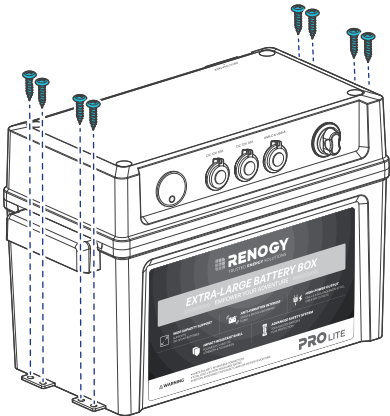
4.2. Secure the Battery Box (optional)

This section uses the specialized fix brackets (sold separately) for the battery box as an example. Other mounting methods may also be used as alternatives.

Step 1: Install the fix bracket through the mounting holes on the battery box.

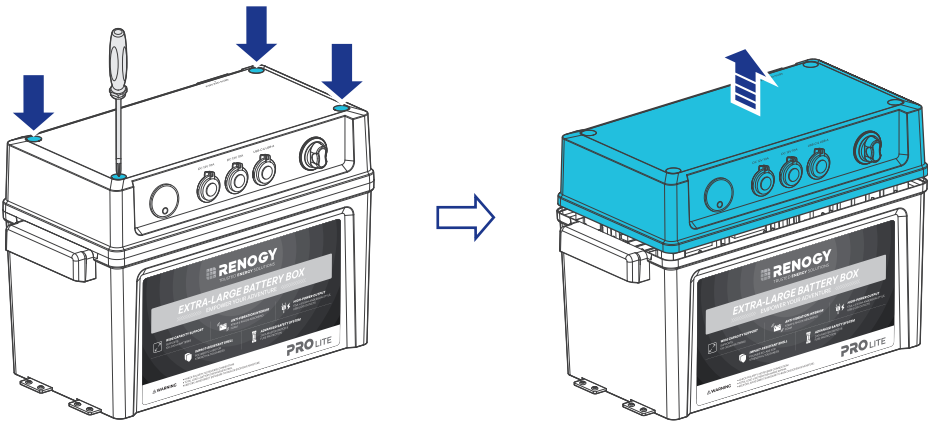


Step 2: Mount the battery box on a flat surface.



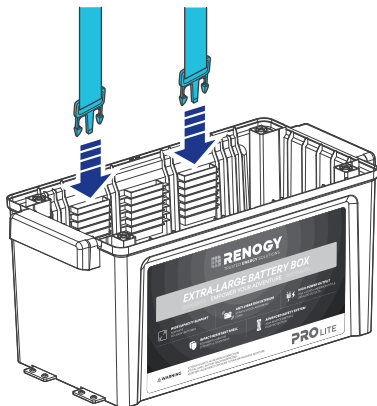
4.3. Remove the Cover

Remove the four bolts that secure the cover, and then lift the cover upwards.

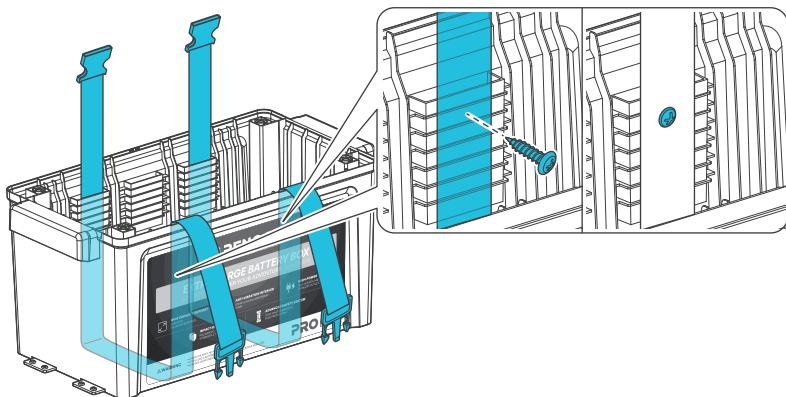


4.4. Secure the Battery

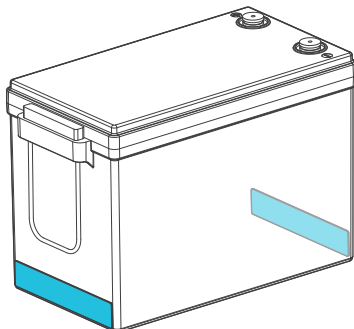
Step 1: Insert the two straps into the battery fixing slots on either side of the battery box.



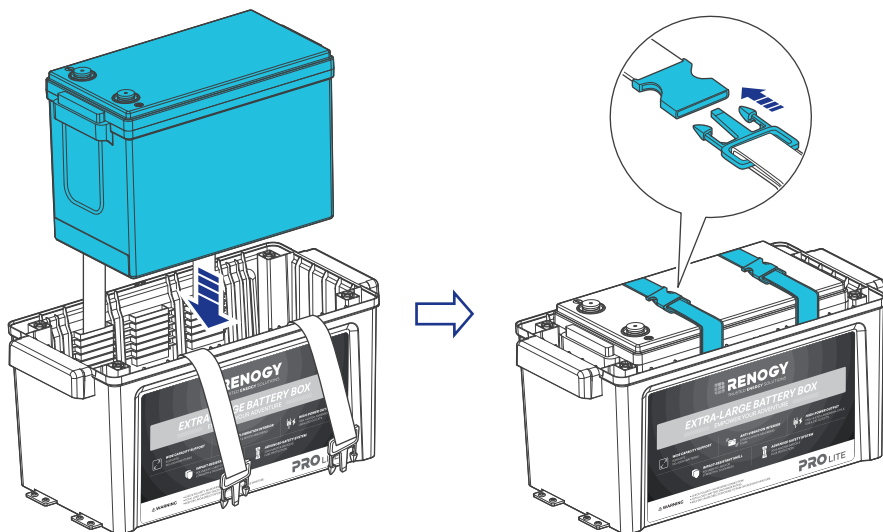
Step 2: Place the straps on the surface of the battery fixing slot on the opposite side and secure them with strap screws, as shown in the figure. Using this method to secure the straps ensures that they are firmly limited at both the upper and lower ends.



Step 3: The battery box is specifically designed for the Renogy Core Series 12.8V 300Ah Mini Deep Cycle Lithium Iron Phosphate Battery. When using this battery, you can apply foam padding on both sides of the battery (as indicated in the figure) to enhance overall stability.



Step 4: Place the battery vertically inside the battery box, ensuring that the battery terminals are facing upward, and use the straps to secure the battery in place.

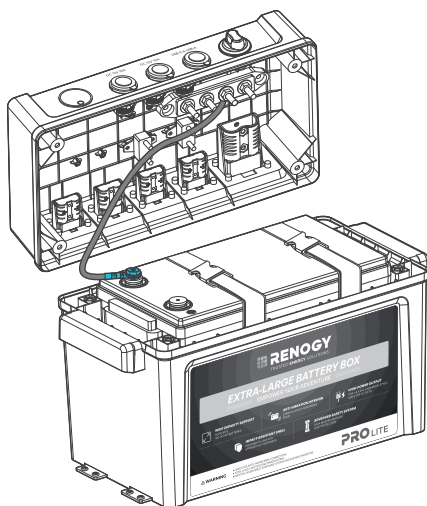


4.5. Connect the Battery to the Battery Box

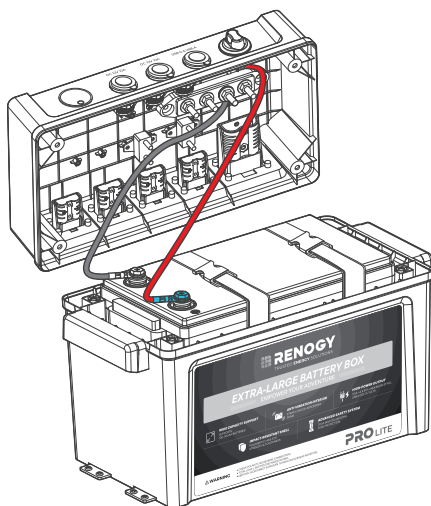
Step 1: Turn the master switch on the battery box to the OFF position.

Step 2: Connect the negative cable inside the battery box cover to the negative terminal of the battery.

i Always connect the negative before the positive end. A reverse polarity contact can result in damage to the battery box, thus voiding the warranty.



Step 3: Connect the positive cable inside the battery box cover to the positive terminal of the battery.

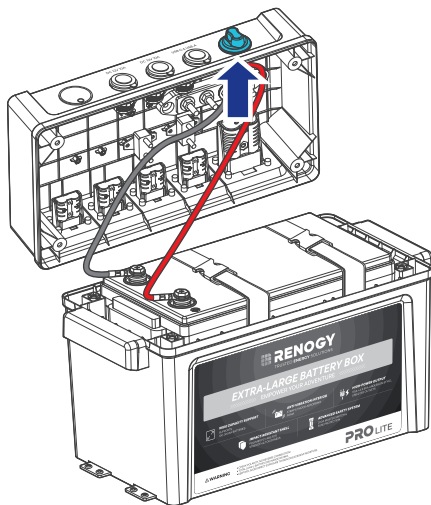


At this step, do not install the cover yet. Since the mode button is located behind the voltmeter, please set up the battery box first, and then install the cover afterward.

4.6. Power On

Rotate the master switch to power the battery box on or off.

- ON Position: Power on
- OFF Position: Power off

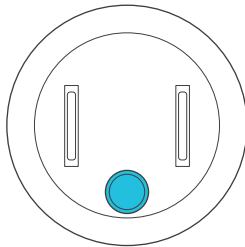


4.7. Voltmeter Buttons

The voltmeter has a button on the front and one on the back.



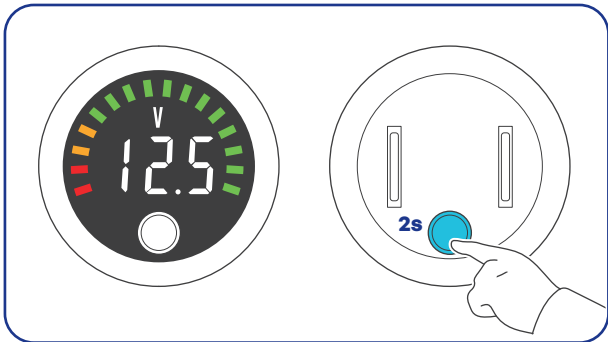
Front: Switch button



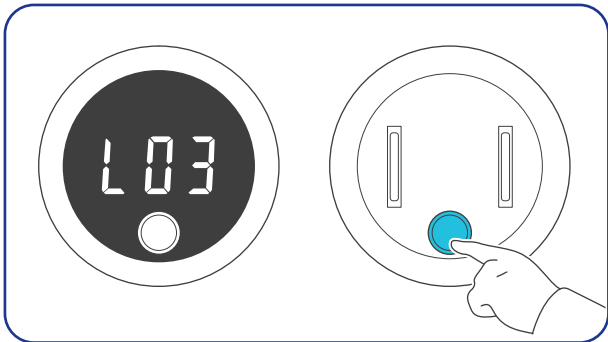
Back: Mode button

4.8. Battery Type and Voltage Settings

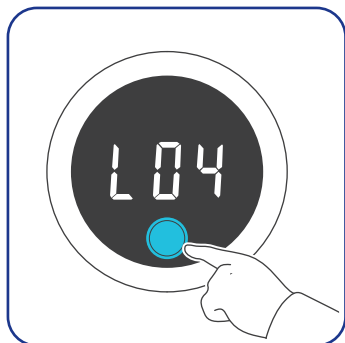
■ For Ternary Lithium Batteries



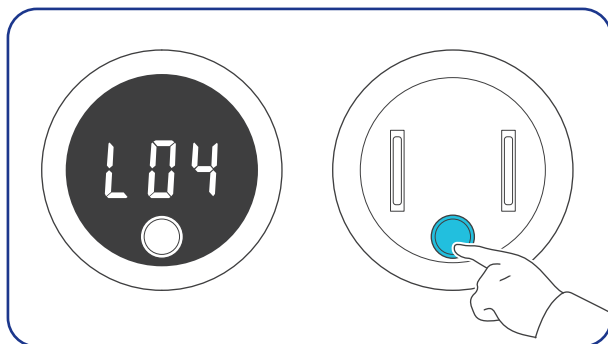
1. Press and hold the mode button on the homepage for 2 seconds to enter the settings page.



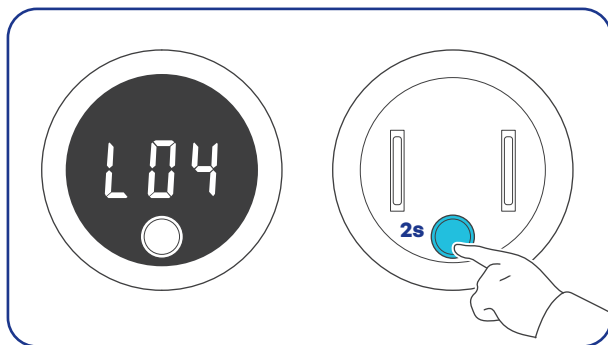
2. Press the mode button briefly to switch to the L03 (Ternary Lithium 3 Series) page; "03" will start flashing.



3. Press the switch button briefly to toggle between 03 and 22. Set to "L04". This number represents the actual number of series-connected battery cells. The nominal voltage of a ternary lithium battery is 3.7V per cell, so 4 series means $4 \times 3.7V = 14.8V$.

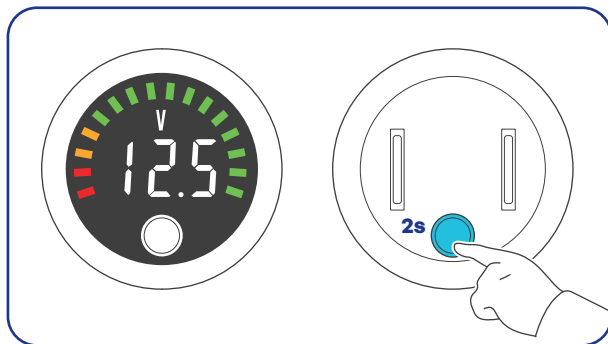


4. Press the mode button briefly to confirm and save, and the number (battery series count) will stay lit.

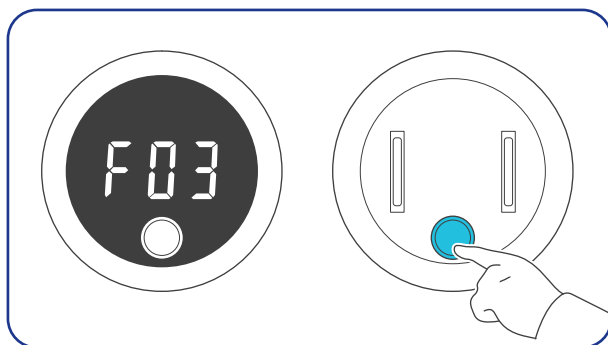


5. Press and hold the mode button for 2 seconds to return to the main page.

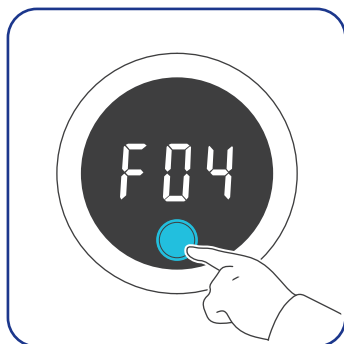
■ For Lithium Iron Phosphate Batteries



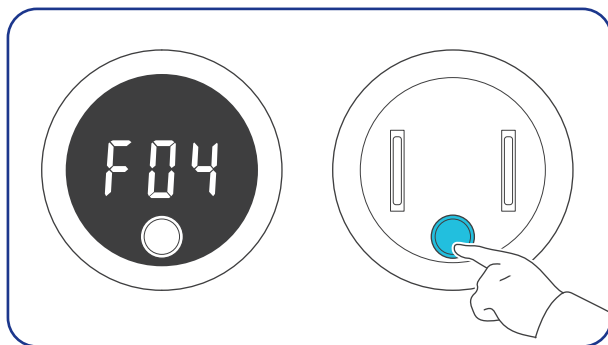
1. Press and hold the mode button on the homepage for 2 seconds to enter the settings page.



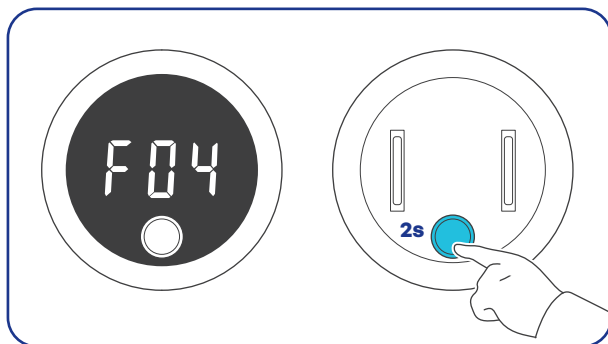
2. Press the mode button briefly to switch to the F03 (Lithium Iron Phosphate 3 Series) page; "03" will start flashing.



3. Press the switch button briefly to toggle between 03 and 26. Set to "F04".
This number represents the actual number of battery cells in series. A lithium iron phosphate battery has a nominal voltage of 3.2V per cell, so 4 series represents $4 \times 3.2V = 12.8V$.

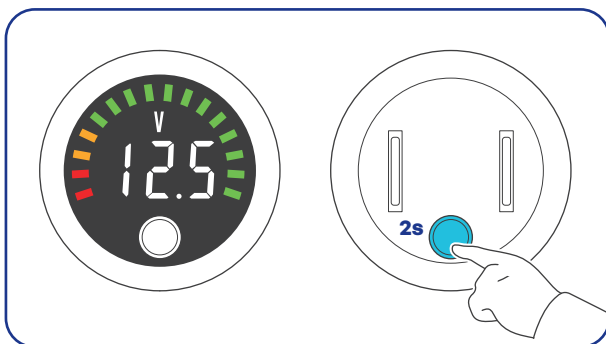


4. Press the mode button briefly to confirm and save, and the number (battery series count) will stay lit.

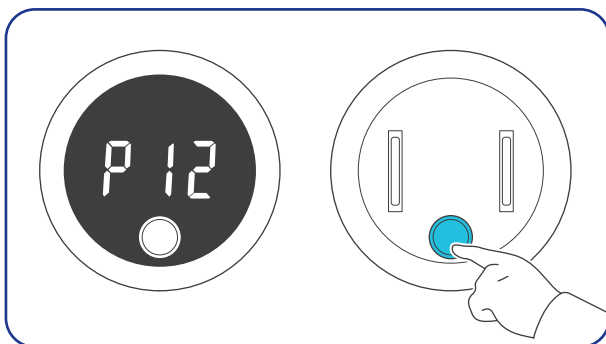


5. Press and hold the mode button for 2 seconds to return to the main page.

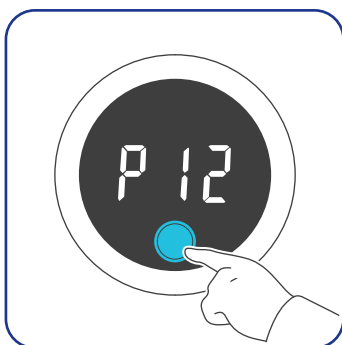
■ For Lead-Acid Batteries



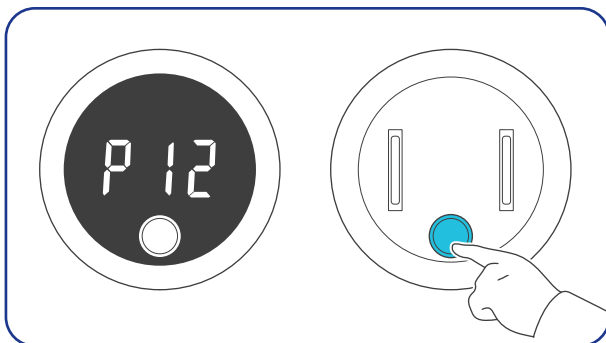
1. Press and hold the mode button on the homepage for 2 seconds to enter the settings page.



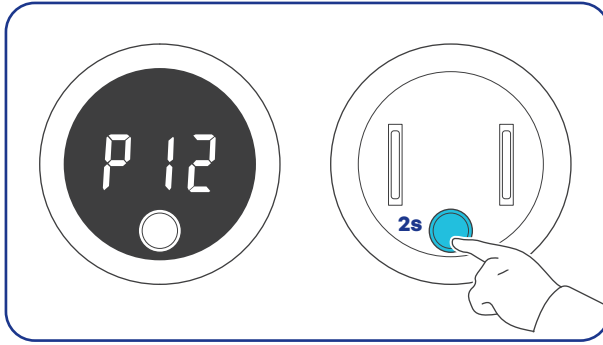
2. Press the mode button briefly to switch to the P12 (12V Lead-Acid Battery) page; "12" will start flashing.



3. Press the switch button to cycle through the display options for 12/24/36/48/60/72/84. Set to "P12". These numbers represent the battery voltage, so set this according to the battery's nominal voltage.



4. Press the mode button briefly to confirm and save, and the number (voltage) will stay lit.



5. Press and hold the mode button for 2 seconds to return to the main page.

4.9. Battery High and Low Voltage Settings

1. Press and hold the mode button on the homepage for 2 seconds to enter the settings page.
2. Press the mode button to access the low voltage parameter page; the first digit on the left will start flashing. At this point, press the switch button briefly to modify the value. After completing the settings, press and hold the switch button for 2 seconds to move to the next digit, which will begin flashing. Follow the same steps to set the low voltage threshold values.
3. Once the low voltage values are set, press the mode button briefly to confirm and save; the values will remain lit.
4. Then, press the mode button briefly to switch to the high voltage setting page; the setting method is the same as for the low voltage values. After completing the settings, press the mode button briefly to confirm and save; the values will remain lit.
5. Press and hold the mode button for 2 seconds to return to the main page.



The values in the image below are for reference only. Please use the voltage values provided in the battery manual.

Battery Low Voltage



Battery High Voltage

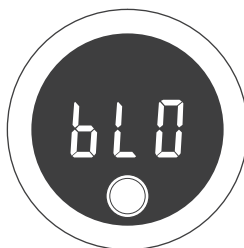


4.10. Voltmeter Screen Brightness Duration Settings

1. Press and hold the mode button on the homepage for 2 seconds to enter the settings page.
2. Press the mode button to access the voltmeter screen brightness duration settings page (BL0 page); the number will start flashing.
3. Press the switch button briefly to select the display on time, which can be toggled between 0 and 6, as detailed below:
 - BL0: Backlight remains on continuously; it needs a switch button press to turn off.
 - BL1: Backlight stays on for 10 seconds before turning off to enter low power mode.
 - BL2: Backlight stays on for 20 seconds before turning off to enter low power mode.

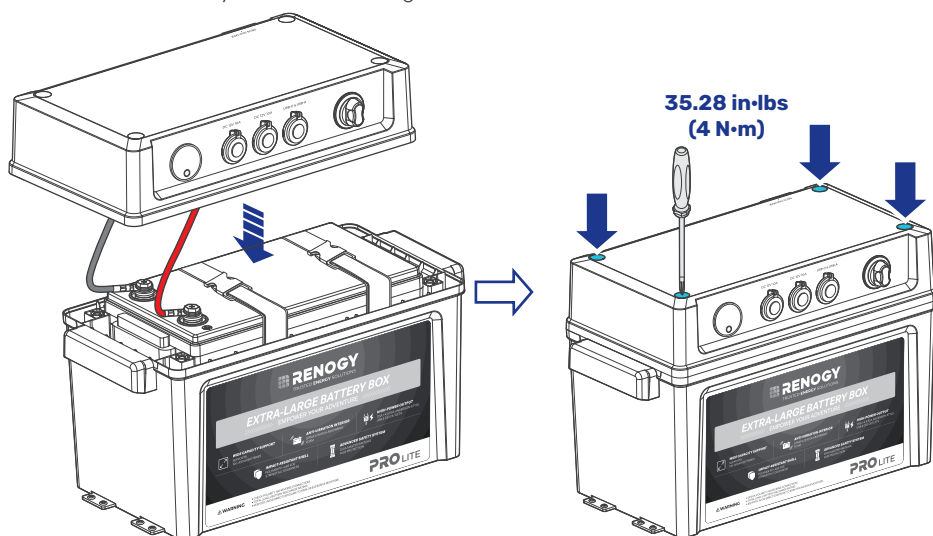
- BL3: Backlight stays on for 30 seconds before turning off to enter low power mode.
 - BL4: Backlight stays on for 40 seconds before turning off to enter low power mode.
 - BL5: Backlight stays on for 50 seconds before turning off to enter low power mode.
 - BL6: Backlight stays on for 60 seconds before turning off to enter low power mode.
4. After making your selection, press the mode button briefly to confirm and save.
 5. Press and hold the mode button for 2 seconds to return to the main page.

i In the settings page, the voltmeter backlight remains on and will not turn off; it will only automatically turn off on the main page.



4.11. Install the Cover

Install the cover vertically and secure it using the four bolts.

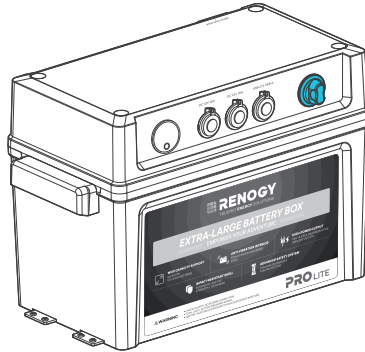


5. Configuration

5.1. Power On/Off

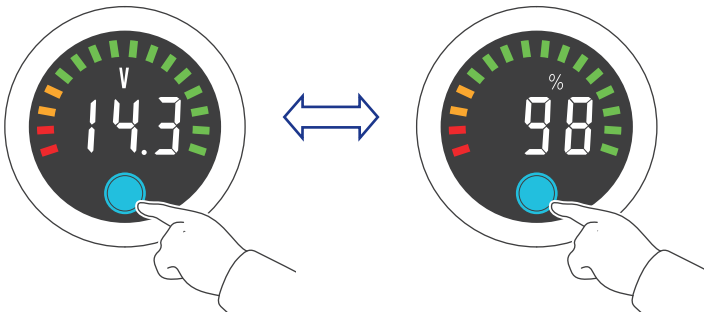
Rotate the master switch to power the battery box on or off.

- ON Position: Power on
- OFF Position: Power off



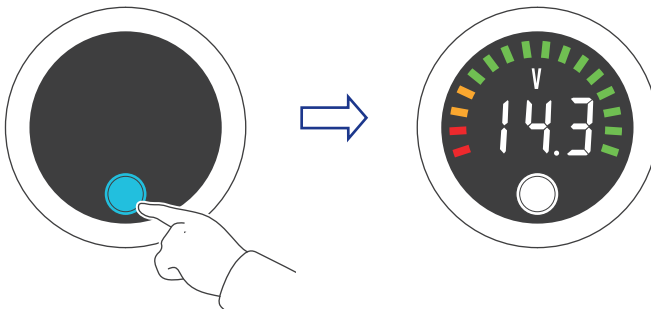
5.2. Switching the Main Page

Press the switch button on the voltmeter to cycle through the battery's voltage and capacity displays.



5.3. Voltmeter Screen Wake-up

After the voltmeter screen is turned off, press the switch button to illuminate the voltmeter screen.



6. Connected Devices

6.1. Charging Wiring

The battery box is equipped with four DC input/output 50A anderson-style ports, and one anderson-style SB175 135A port, allowing you to connect charging devices to these ports.

- DC input/output 50A anderson-style ports: Each port supports a maximum input current of 50A. Note that when each group of ports (as indicated by the silk screen, with two ports per group) is connected to devices, the total input current for each group must not exceed 50A.

i If the current exceeds 50A, it will trigger overcurrent protection. When the battery box triggers overcurrent protection, the self-resetting circuit breaker will disconnect the DC input circuit. It will remain in the off position until the DC input current drops below 50A, at which point the self-resetting circuit breaker will restore the DC input circuit.

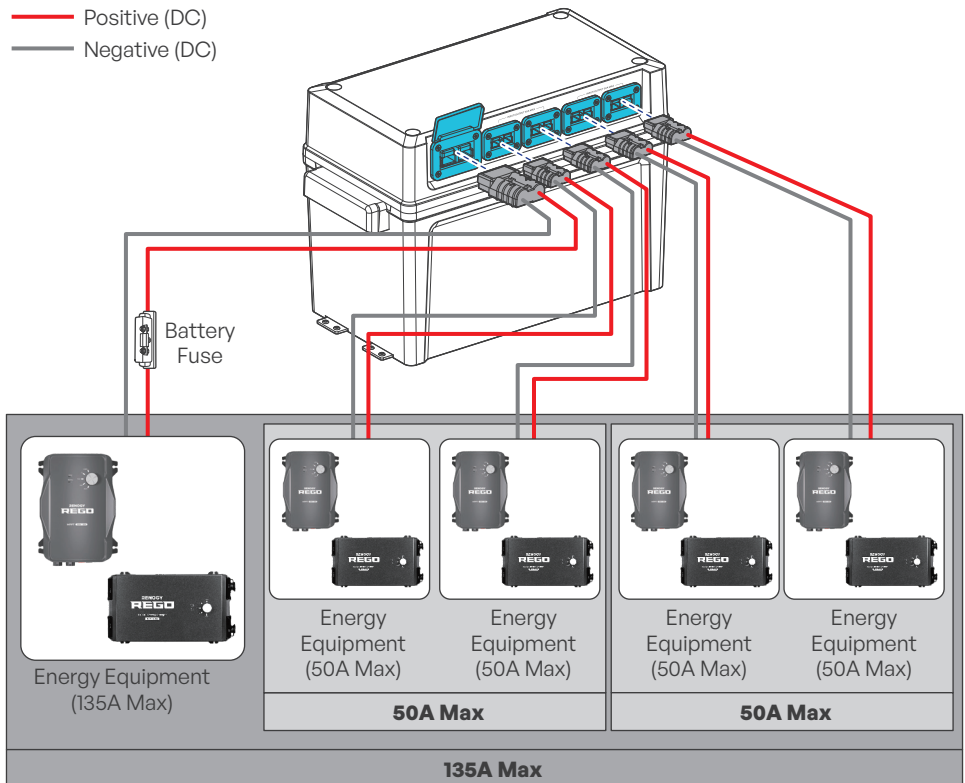
- Anderson-style SB175 135A port: Supports a maximum input current of 135A. Note that this port does not have a built-in fuse; please install an external fuse when connecting charging devices.

! When all three ports are connected to charging devices, the total current from all charging devices must not exceed 135A.

! Read the battery user manual and choose a charger that matches the battery's maximum continuous charging current and voltage; otherwise, it may cause damage to the battery.

— Positive (DC)

— Negative (DC)

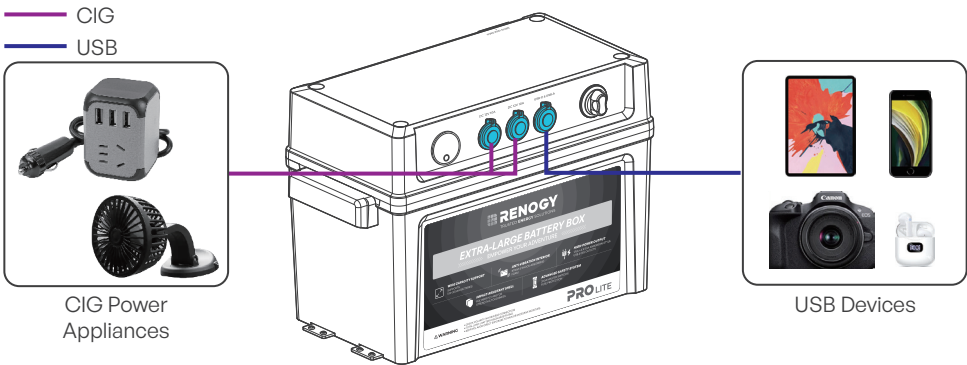


6.2. Powering Appliances

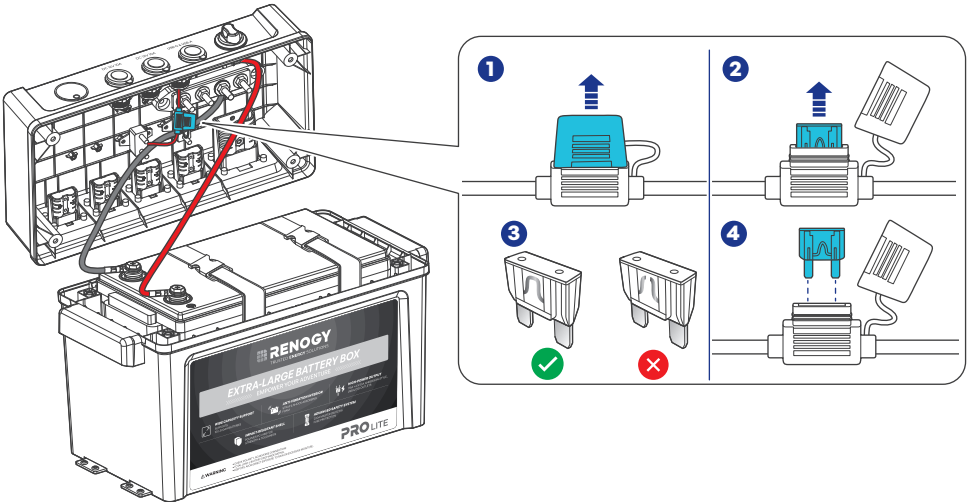
The output voltage of the battery box depends on the battery voltage. Read the user manuals for both the battery and DC load to understand the voltage specifications. Ensure that the DC load input voltage range is appropriate; otherwise, it may cause damage to the DC load.

-  Read the battery user manual to check the maximum continuous discharge current of the battery. Ensure that the total current of all DC loads is below the battery's maximum continuous discharge current.
-  When four DC input/output 50A anderson-style ports, anderson-style SB175 135A port, CIG sockets, and the USB socket are all connected to DC loads, the total current from all DC loads must not exceed 135A.

Front View



The maximum total output current for the CIG sockets and USB socket is 30A. Ensure that the total current of all loads connected to these ports does not exceed 30A; otherwise, the internal fuse will blow, and you will need to replace it with a new 30A blade fuse.



Rear View

The battery box is equipped with four DC input/output 50A anderson-style ports, and one anderson-style SB175 135A port, allowing you to connect DC loads to these ports.

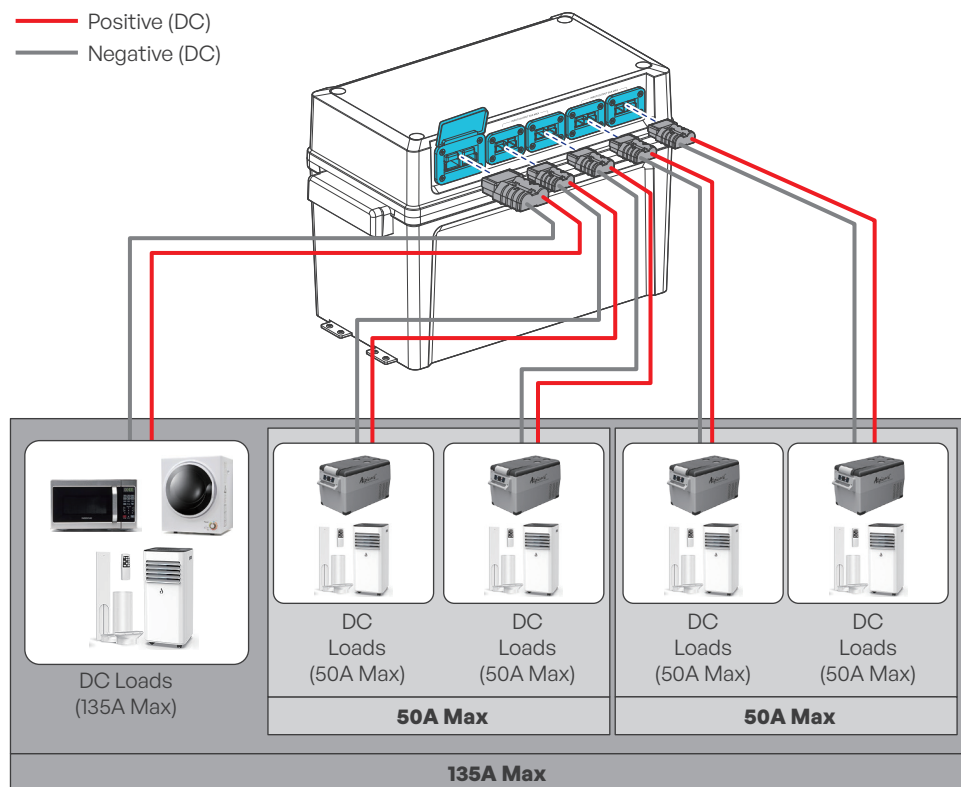
- DC input/output 50A anderson-style ports: Each port supports a maximum output current of 50A. Note that when each group of ports (as indicated by the silk screen, with two ports per group) is connected to DC loads, the total output current for each group must not exceed 50A.

i If the current exceeds 50A, it will trigger overcurrent protection. When the battery box triggers overcurrent protection, the self-resetting circuit breaker will disconnect the DC output circuit. It will remain in the off position until the DC output current drops below 50A, at which point the self-resetting circuit breaker will restore the DC output circuit.

- Anderson-style SB175 135A port: Supports a maximum output current of 135A. Note that this port does not have a built-in fuse; please install an external fuse or a distribution box when connecting DC loads.

— Positive (DC)

— Negative (DC)



7. Troubleshooting

Problem	Solution
Battery box won't power on	If the battery box isn't powering on, consider the following troubleshooting steps: 1. Inspect the Master Switch: Make sure the master switch is turned to the on position. 2. Check Battery Connection: Inspect all wiring and connections for damage or loose connections. Ensure that the battery is properly installed and securely connected. 3. Verify Voltage Levels: Use a multimeter to check the battery voltage, ensuring it is not below 7V. If the voltage is lower than 7V, please charge the battery before proceeding.
Battery in the battery box is not charging	If the battery installed in the battery box is not charging, please follow these troubleshooting steps: 1. Check Connections: Inspect the connections between the battery box and the charger to ensure they are correct and secure. Make sure there are no short circuits, loose connections, or reversed connections. 2. Check Charger: Ensure that the specifications of the charger meet the requirements of the battery. If the charging current from the DC input/output 50A anderson-style ports exceeds 50A, the battery box will trigger overcurrent protection. Use a charger with a capacity of less than 50A. For more details, please refer to Section “6.1. Charging Wiring” in this manual. 3. Check Battery: If the lithium battery voltage is below 8V, it may have entered sleep mode, preventing charging. Use a charger with lithium battery activation features to reactivate the lithium battery.
DC loads not receiving power from the battery box	If the battery is not powering the DC load through the battery box, please follow these troubleshooting steps: 1. Check Connections: Ensure all connections between the battery box and the DC load are secure and properly connected. 2. Verify Load Compatibility: Ensure that the DC load's voltage and current requirements are compatible with the battery specifications. 3. Inspect Battery Voltage: Use a multimeter to check the battery voltage. If it is too low, the battery box may not deliver power to the load. 4. Check for Overcurrent Protection Activation: If the current from the DC loads connected to the DC input/output 50A Anderson-style ports exceeds 50A, the battery box will trigger overcurrent protection. Ensure that the total current from the DC loads does not exceed 50A. For more details, please refer to Section “6.2. Powering Appliances” in this manual. 5. Test with Different Loads: Try connecting a different DC load to see if the issue is specific to the original load. 6. Examine Output Ports: Check the output ports for any damage or obstructions that may prevent power from being delivered to the DC load.

Voltmeter on battery box not lighting up	If the voltmeter on the battery box is not lighting up, please follow these troubleshooting steps: 1. Examine the Master Switch: Make sure that the master switch on the battery box is in the ON position. 2. Inspect Battery Voltage: Use a multimeter to check the battery voltage, ensuring it is not below 7V. If the voltage is lower than 7V, please charge the battery before proceeding.
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 For technical support, contact our technical service through renogy.com/contact-us.

8. Specifications

Model	ROAO5PB-SCA-G1-AU
Compatible System Voltage	12V DC
Materials	PC + ABS
Suitable Battery Types	Deep Cycle Batteries (Lithium, AGM, Calcium, Wet, Gel)
Max. Battery Dimensions	13.35 x 7.28 x 9.76 in / 339 x 185 x 248 mm
Ports	1 x 175A + 4 x 50A Anderson-styleForts, Dual USB&CIG
Continuous Current	Total 135A
Ratings	200A Master Switch, 2 x 50A Auto-Reset Breakers (Anderson-Style Plugs), 1x 30A Blade Fuse (USB and CIG Ports)
Display	Voltage Display Screen
Product Dimensions	19.69 x 9.84 x 12.99 in / 500 x 250 x 330 mm
Net Weight	9.04 lbs / 4.1 kg
Package Dimensions	20.16 x 10.28 x 13.62 in / 512 x 261 x 346 mm
Gross Weight	11.02 lbs / 5.0kg
Operating Temperature	-4°F to 149°F / -20°C to 65°C
Storage Temperature	Within 7 days: -22°F to 149°F / -30°C to 65°C Long-term: -4°F to 122°F / -20°C to 50°C
Operating Humidity	0% to 95%, RH, no condensation
Warranty	1 years

9. Maintenance

9.1. Inspection

For optimum performance, it is recommended to perform these tasks regularly.

- Ensure there is no damage or wear on the cables.
- Ensure the battery box is installed in a clean, dry, and ventilated area.
- Ensure the firmness of the connectors and check if there are any loose, damaged or burnt connections.
- Ensure there is no corrosion, insulation damage, or discoloration marks of overheating or burning.

 In some applications, corrosion may exist around the terminals. Corrosion can loosen springs and increase resistance, leading to premature connection failure. Apply dielectric grease to each terminals contact periodically. Dielectric grease repels moisture and protects the terminals contacts from corrosion.

 Risk of electric shock! Make sure that all power supplies are turned off before touching terminals on the battery box.

9.2. Cleaning

Follow the steps below to clean the battery box regularly.

- Disconnect all cables connected to the battery box.
- Wipe the housing and connector contacts of the battery box with a dry cloth or nonmetallic brush. If it is still dirty, you can use household cleaners.
- Dry the battery box with a clean cloth and keep the area around the battery box clean and dry.
- Make sure the battery box is completely dry before reconnecting it to relevant devices.
- Follow the instructions in sequence during wiring.

9.3. Storage

Follow the tips below to ensure that the battery box is stored well.

- Disconnect all cables connected to the battery box.
- Apply dielectric grease to each terminals to repel moisture and protect the connector contacts from corrosion.
- Store the battery box in a well-ventilated, dry, and clean environment with the temperature between -4°F to 122°F or -20°C to 50°C.

9.4. Disposal

- Do not dispose of the battery box as household waste. Comply with local, state, and federal laws and regulations, and use recycling channels as required.
- Do not dispose of the battery box into a fire or an environment with a risk of explosion.

10. Emergency Responses

In the event of any threat to health or safety, always begin with the steps below before addressing other suggestions.

- Immediately contact the fire department or other relevant emergency response team.
- Notify all people who might be affected and ensure that they can evacuate the area.

 Only perform the suggested actions below if it is safe to do so.

10.1. Fire

1. Disconnect all cables connected to the battery box.
2. In the event of a fire, use a fire extinguisher suitable for electrical equipment, such as a FM-200, CO₂, or dry powder extinguisher. A fire blanket or sand can also be used to extinguish the fire. If a suitable fire extinguisher is not available, evacuate immediately and contact the fire department.

 Do not use type D (flammable metal) fire extinguishers.

10.2. Flooding

1. If the battery box is submerged in water, stay away from the water.
2. Disconnect all cables connected to the battery box.

10.3. Smell

1. Ventilate the room.
2. Disconnect all cables connected to the battery box.
3. Ensure there is no discoloration marks of overheating or burning.

11. Important Safety Information

11.1. General Safety

- Wear proper protective equipment and use insulated tools during installation and operation. Do not wear jewelry or other metal objects when working on or around the battery box.
- Keep the battery box out of the reach of children.
- Do not dispose of the battery box as household waste. Comply with local, state, and federal laws and regulations and use recycling channels as required.
- In case of fire, put out the fire with a FM-200 or CO₂ fire extinguisher.
- Do not expose the battery box to flammable or harsh chemicals or vapors.
- Clean the battery box regularly.
- Do not puncture, drop, crush, penetrate, shake, strike, or step on the battery box.

11.2. Battery box Safety

- There are no serviceable parts in the battery box. Do not open, dismantle, repair, tamper with, or modify the battery box.
- Keep the battery box away from any heater.
- Do not insert foreign objects into the battery box.
- Confirm the polarities of the devices before connection. A reverse polarity contact can result in damage to the battery box and other connected devices, thus voiding the warranty.
- Do not touch the connector contacts while the battery box is in operation.
- Disconnect all connectors from the battery box before maintenance or cleaning.

11.3. Battery Safety

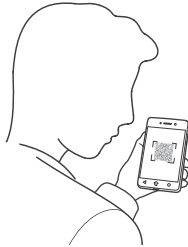
- Do not use batteries if there is any damage. Do not touch the exposed electrolyte or powder if the battery is damaged.

Renogy Support

To discuss inaccuracies or omissions in this quick guide or user manual, visit or contact us at:



→ contentservice@renogy.com



Questionnaire Investigation



To explore more possibilities of solar systems, visit Renogy Learning Center at:

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For technical questions about your product in the U.S., contact the Renogy technical support team through:



→ support@renogy.com



1(909)2877111

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Save 300 pounds of CO₂ from being released into the atmosphere



Save 105 gallons of water from being consumed



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