

RV5

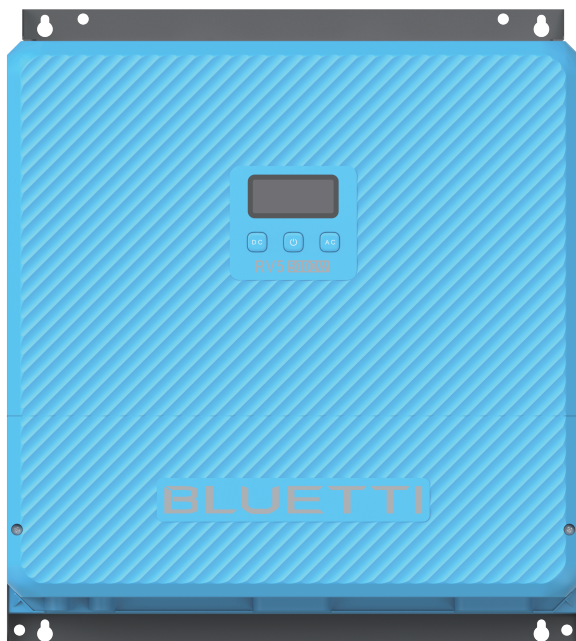
Power Hub

User Manual v3.0

Important instructions

- Read and understand this manual before use and keep it handy for future reference.





Tips

1. Before first use, make sure the connected batteries are in good condition and functioning properly.
2. Only connect devices that meet the voltage requirements for each port.
3. Do not connect the unit's AC output to the grid.
4. Ensure proper ventilation if the unit is placed in a confined space.
5. Do not remove the wiring covers or touch exposed terminals while the unit is in use.

Notice

BLUETTI's products and services are subject to the terms and conditions agreed upon during purchase. Some aspects described in this manual may not be available under your purchase contract. Unless otherwise specified in the contract, BLUETTI makes no express or implied representations or warranties regarding the contents of this manual.

The contents of this manual are subject to change without notice. Please obtain the latest version from BLUETTI official website.

If you have any questions or concerns about this manual, please contact BLUETTI support for further assistance.

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About the Manual

Purpose

This user manual describes the installation, electrical connection, commissioning, maintenance and troubleshooting of RV5. **Please read and understand all instructions in this manual before use.**

Symbol Conventions

This manual uses the following symbols to highlight important information:

	Danger It indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Warning It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Caution It indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Attention It indicates a potentially hazardous situation which, if not avoided, could cause substantial damage to property and the environment.
	Note It contains important additional information as well as useful tips for safe, efficient and hassle-free operation of the RV5.

1. Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS – This manual contains important safety and operating instructions for RV5.

1.1 General Instructions

1.1.1 Statement

Before installing, operating, or maintaining this unit, please read this manual thoroughly and follow all safety precautions indicated on the unit and in this manual.

Look for and follow all "**Note**", "**Attention**", "**Caution**", "**Warning**", and "**Danger**" statements in this manual. The safety guidelines provided herein do not cover all possible safety considerations. Please follow all relevant international, national, or regional standards, as well as industry practices. Our company shall not be liable for damages resulting from noncompliance with these safety requirements or standards.

For issues or operations not covered in this manual, please contact BLUETTI support, otherwise we are not responsible for any damage or injury caused by unauthorized operations.

Always consider the actual on-site conditions when using the unit. Use it only in environments that meet the requirements outlined in this manual. Failure to do so may cause equipment malfunctions or damage, which are not covered by the warranty. Our company is not liable for any injuries or property damage caused by improper use.

Thus, for proper installation and use of this unit, it's crucial to adhere to the following guidelines:

1. Always operate or store the unit in the conditions specified in this manual.
 2. CAUTION – To reduce risk of injury, charge only LiFePO₄ or lead-acid batteries type rechargeable batteries. Other types of batteries may burst causing personal injury and damage.
 3. Do not expose the unit to rain or snow.
 4. Use of an attachment not recommended or sold by us may result in a risk of fire, electric shock, or injury to persons.
 5. Do not disassemble the RV5; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
 6. To reduce risk of electric shock, unplug the RV5 from the outlet before attempting any maintenance or cleaning. Turning off controls will not eliminate this risk.
 7. The installation and ambient conditions must comply with the regulations in the relevant international, national, or regional standards.
 8. Avoid unauthorized disassembly, equipment alterations, or software code modifications.
- Our company shall also not be liable for the following situations or their consequences:
- Damage caused by force majeure events such as earthquakes, fires, storms, floods, or

mudslides.

- Transport-related damages during customer handling.
- Equipment damage due to improper storage conditions as outlined in the manual.
- Hardware damage or data loss resulting from customer negligence, improper use, or intentional damage.
- System damage caused by third parties or customers, including improper handling or installation not in line with the manual's instructions.
- Damage from adjustments, modifications, or removal of labels not authorized in the manual.
- Use of the unit in environments not compliant with relevant international, national, or regional standards.
- Installation or operation by unauthorized personnel.
- Use of customer-provided materials or tools that do not meet local legal requirements or relevant standards.



Attention

Follow these guidelines for proper use.

- This unit is not intended for use with devices that have high-performance requirements for UPS (Uninterruptible Power Supply), including but not limited to data servers, workstations, medical equipment, and similar devices. Our company shall not be liable for any data loss or equipment damage resulting from the violation of this requirement.

1.1.2 General Requirements



Danger

Follow these guidelines for proper use.

1. Do not install, use, or maintain the unit in adverse weather conditions such as lightning, rain, snow, and strong breezes (including handling, operating, plugging, and unplugging signal connections for outdoor facilities, working at heights, and outdoor installations).
2. Keep the unit away from heat sources or high temperatures, and do not expose it to direct sunlight.
3. Do not clean the unit with water.
4. Regularly inspect the unit and its accessories for signs of damage or deterioration.
5. Use a tester to check for dangerous voltage before touching any conductor or terminal.
6. In the event of a fire, prioritize personal safety. If safe to do so, immediately disconnect power

- and use a CO₂, FM-200, or ABC dry powder fire extinguisher.
- 7. If a fire occurs, EVACUATE the affected area promptly. Activate the nearest FIRE ALARM system and CONTACT local emergency services.
 - 8. Do not store flammable or explosive materials near the unit.
 - 9. Do not block or cover the unit's openings and vents.
 - 10. Use the unit only for its intended purpose and refrain from stacking objects on or near it during storage or use.
 - 11. RV5 must be firmly fixed and installed. Any movement is strictly prohibited during operation.
 - 12. In case of malfunction, immediately power the unit off and contact BLUETTI support or your local BLUETTI dealer if the manual does not adequately explain the issue.
 - 13. Mount the unit securely on a metal bracket, wall, or stable platform to prevent it from falling. Avoid placing it on inclined surfaces.
 - 14. Keep the unit out of the reach of children and pets.
 - 15. Do not install the unit where it may be exposed to water or submerged.
 - 16. Do not touch the unit when it's running, as the shell may become hot and pose a risk of burns.



Note

Comply with applicable laws and regulations.

- When handling, installing, wiring, or maintaining this product, comply with the country or region's legal regulations and standards.
- Use materials and tools that meet applicable legal requirements and standards.
- Understand the operational principles and standards relevant to the energy storage system in the location.

1.2 Installation Safety



Danger

Follow these guidelines for proper use.

1. Avoid working with live electrical components.
2. Before installation, double check the unit for any signs of damage or defects to minimize potential risks.
3. Make sure the unit and all associated switches are turned off (not in sleep mode) to prevent electric shock.
4. Do not touch any terminal while the unit is running, as it may pose a risk of electric shock.
5. Use a tester to check for dangerous voltage before touching any conductor or terminal.

1.2.1 General Requirements

1. After installation, remove the idle package materials from the site such as cardboard, foam, plastic, nylon ties, etc.
2. Keep people other than the installers away from the site.
3. Handle the unit and accessories carefully during transport; use original or protective packaging.
4. Seal wiring ports securely with fireproof and waterproof materials.
5. Do not alter or cover equipment markings or nameplates.
6. Check and make sure all safe guards, including screws and waterproof rings, are in place and properly tightened.
7. Clean the unit and accessories with a soft cloth; avoid water or harsh chemicals.
8. Do not make any changes to the unit's structure, installation sequence, or any other aspects without permission.

1.2.2 Drilling Requirements

When drilling holes in the wall or on the ground, follow these safety measures:

1. Wear goggles and protective gloves at all times.
2. Shield the unit to prevent debris from falling into it, and remove all debris after drilling.
3. Drill holes on the unit is forbidden as it may damage the unit's electromagnetic shielding performance. The metal shavings may cause short circuits on the circuit board.
4. Make sure to check for any embedded pipes or cables before drilling to prevent short circuits or other hazards.

1.2.3 Location Requirements

1. Locate RV5 away from battery in a separate, well ventilated compartment.
2. Never place device directly above battery; gases from battery will corrode and damage device.

3. Never allow battery acid to drip on device when reading gravity or filling battery.

4. Do not operate device in a closed-in area or restrict ventilation in any way.

1.3 Battery Safety

1.3.1 Disclaimer

Our company shall not be liable for equipment malfunctions, component damage, personal injury, property loss, or other issues caused by:

- Using damaged or modified battery packs or devices.
- Using battery types not specified in the manual or batteries with unsupported voltage.
- Failing to follow the battery user manual for proper use and handling.
- Incorrect battery operational settings.
- Short circuits, damage, drops, or leaks due to improper use or connections.

1.3.2 General Requirements

1. WARNING – RISK OF EXPLOSIVE GASES.

2. CAUTION – WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT EACH TIME BEFORE SERVICING THE UNIT IN THE VICINITY OF THE BATTERY, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

3. To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any unit you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.

4. This unit is intended to recharge batteries. The battery that is connected to this product is only suitable if it complies with the given battery standard for that battery type and is provided with a battery management system that will monitor and control the electrical and thermal health of the battery during charging. When installing this device, the battery is to be verified as in compliance with the applicable battery standard.

5. CAUTION – It's recommended to use battery packs provided by BLUETTI. Unverified, damaged, or modified batteries may pose fire, explosion, or injury risks. If using a third-party battery, follow its user manual for proper use and maintenance.

6. If the battery has no built-in protection features, install a properly rated fuse or DC circuit breaker at the terminal.

7. Use short battery cables to minimize heat buildup and improve performance.

8. WARNING - Never reverse the battery's positive and negative terminals. Damage caused by incorrect connection is not covered under warranty.

9. For marine use, pair this unit with Epad or any compatible voltage and current monitoring device to track the charging process.

1.3.3 Personal Precautions

1. Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
4. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 min and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
7. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
8. NEVER charge a frozen battery.
9. If necessary to remove battery from vessel, always remove grounded terminal from battery first. Make sure all accessories in the vessels are off, so as not to cause an arc.
10. Be sure area around battery is well ventilated.
11. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
12. Study all battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge.
13. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. This helps purge excessive gas from cells. Do not overfill. For a battery without cell caps, carefully follow manufacturer's recharging instructions.

1.3.4 DC Connection Precautions

1. Connect and disconnect battery connections only after setting any device switches to off position and removing AC cord from electric outlet or opening AC disconnect.
2. EXTERNAL CONNECTIONS TO CHARGER SHALL COMPLY WITH THE UNITED STATES COAST GUARD ELECTRICAL REGULATIONS (33CFR183, SUB PART I).

1.4 Electrical Safety

1.4.1 General Requirements

1. Ensure all electrical connections comply with national/regional electrical standards.
2. User-provided cables should meet local legal requirements.
3. Use specialized insulated tools for electrical work.
4. It is recommended to install a 50A overcurrent protection device that meets US standards

on the AC input side according to the voltage used to avoid electrical hazards.

1.4.2 Grounding Requirements

- 1. Before operating the unit, always confirm that it is properly grounded to reduce the risk of electric shock.
- 2. Take care not to damage the grounding conductor.
- 3. Connections to unit should comply with all local codes and ordinances.
- 4. According to IEC62109-1 guidelines, if the ground wire is damaged or disconnected, connect a protective ground wire to ensure safe use of the unit. Ensure the ground wire meets at least one of these criteria:
 - a. Use a single-core outdoor copper cable with a conductor cross-sectional area of $\geq 10\text{mm}^2$ if the PE terminal in the AC connector is not connected.
 - b. Use cables with the same wire diameter as the AC output cables, grounding both the PE terminal in the AC connector and the chassis grounding screw separately.

1.4.3 Wiring Requirements

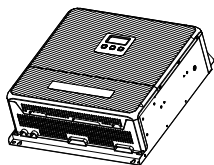
- 1. Keep cables at least 1.18in (30mm) away from heat sources and devices that emit heat, as high temperatures can cause insulation to age or become damaged.
- 2. Bundle cables of similar types together to reduce electromagnetic interference. Keep different types of cables at least 1.18in (30mm) apart and avoid twisting or crossing them.
- 3. All cable must be securely connected, well-insulated, and of suitable specifications.
- 4. Take necessary measures to protect cables when passing through pipes or holes.
- 5. In cold temperatures, severe impacts or vibrations can cause the plastic coating of cables to become brittle and crack. To ensure safe installation:
 - a. Lay and install all cables at temperatures above 0°C (32°F). Handle cables with care, especially when working in cold environments.
 - b. If cables have been stored in temperatures below 0°C (32°F), store them at room temperature for at least 24 hours before installation.

1.5 Handling Requirements

Recommended Number of People Based on the Weight of Product

Weight	Number of People
<18kg (39.7lbs)	1
18kg-32kg (39.7lbs-70.5lbs)	2
32kg-55kg (70.5lbs-121.3lbs)	3
>55kg (121.3lbs)	4 or a cart

2. What's in the Box



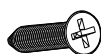
RV5
Power Hub



User Manual & Warranty Card



Drilling Template

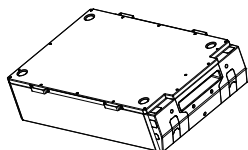


M8 Wood Screw ×8

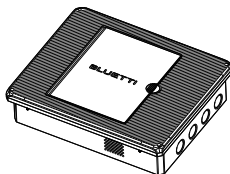


Anchor ×8

The following accessories are not included. You can purchase optional accessories at <https://www.bluettipower.com/>



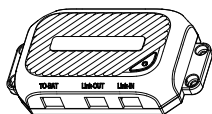
B4810
LiFePO₄ Battery Unit



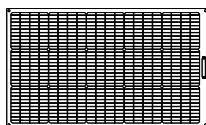
Epanel
Smart Distribution Panel



Epad
Central Control Screen



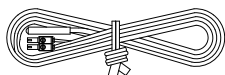
Edock
Battery Communication
Interface Box



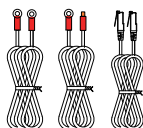
PV100 FX
Solar Panel



Waterproof Cover



Temperature Sensor Cable



Cable Kit

3. Get to Know Your RV5

3.1 RV5 System

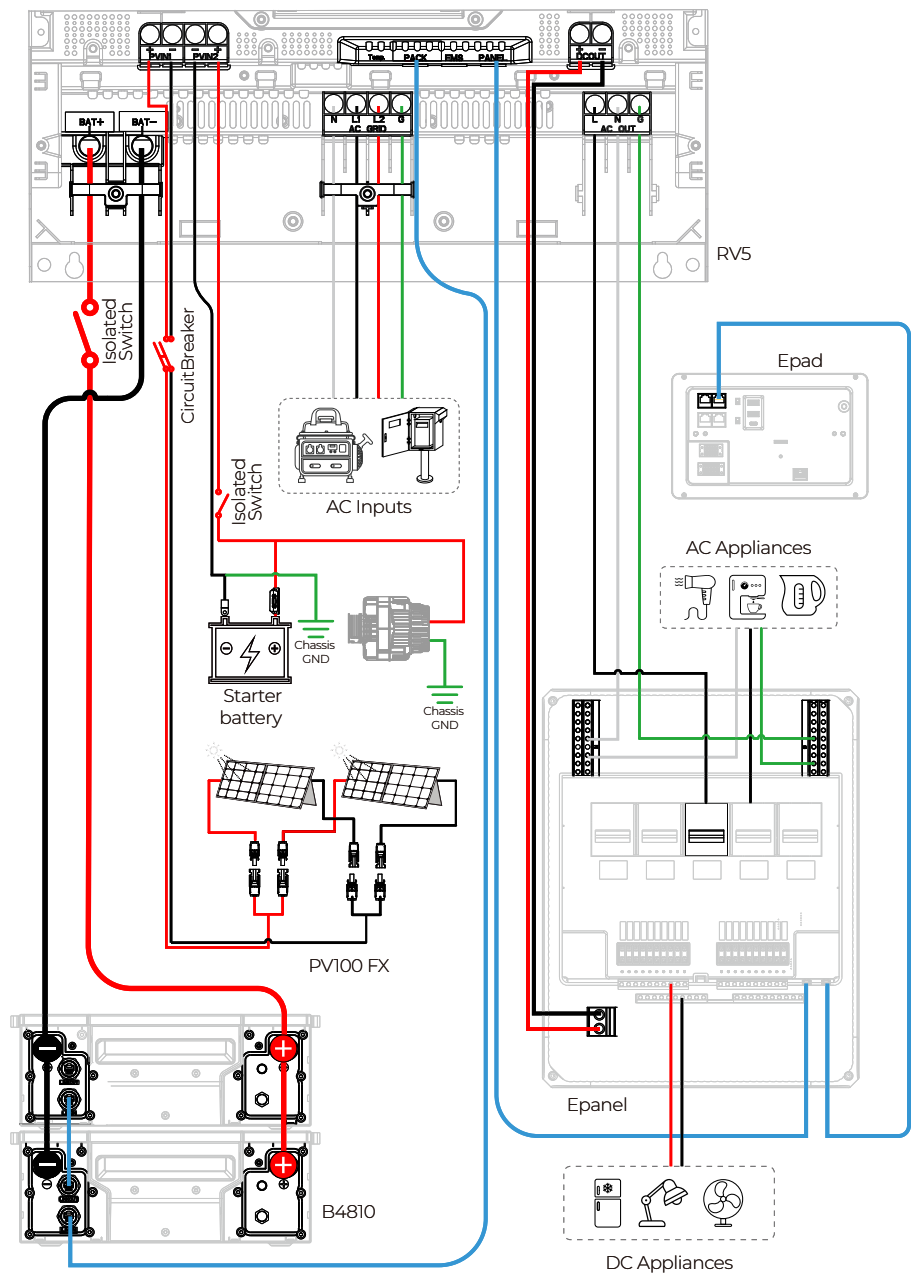
3.1.1 Introduction

The RV5 system is a complete energy solution designed for RVs, boats, and off-grid power setups. At its core, the RV5 5-in-1 power hub integrates seamlessly with the B4810 battery, Epad control pad, Epanel distribution panel, and PV100 FX solar panel, providing efficient management and monitoring of both DC and AC power.

The system is also compatible with BLUETTI battery packs like B4810, B1210, B1232 and the B300 series, as well as lead-acid and non-communication lithium batteries. With support for solar panels with an open-circuit voltage of 12V-50V, the RV5 system delivers flexible, reliable power wherever you go.

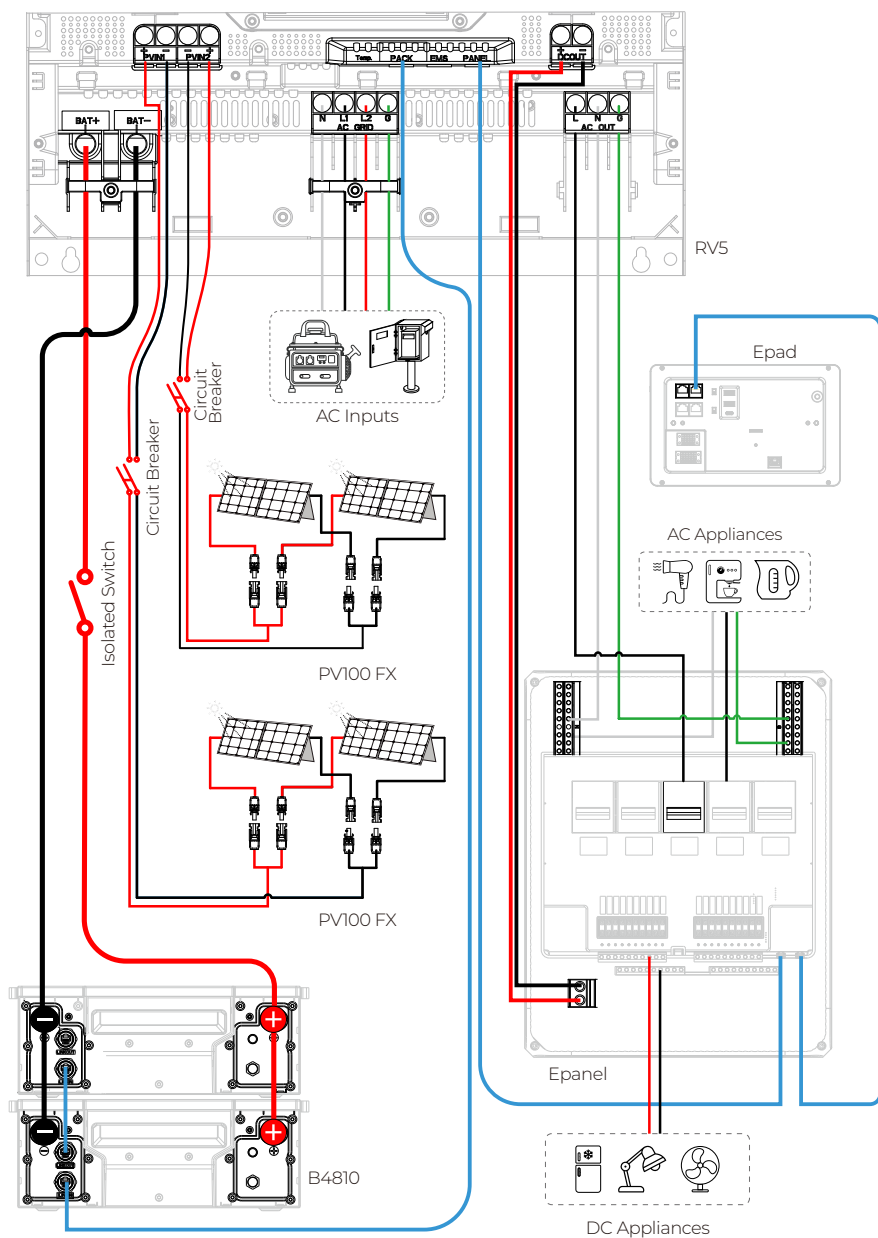
Component	Description
RV5	5-in-1 Power Hub: Integrated DC and AC power management system featuring solar MPPT charging, vehicle charging, AC inverter, battery charging, and a 48V DC-DC step-down module.
B4810	Battery Module (48V, 5,120Wh)
Epad	Energy Controller: Centralized system management with RV-C and NMEA 2000 protocol support, featuring liquid level and temperature sensors, digital I/O, and multiple physical interfaces.
Epanel	Smart Distribution Panel: Supports up to 20 DC circuits (6 app-controlled) and 8 AC circuits (4 app-controlled) for seamless power distribution.
PV100 FX	100W Flexible Solar Panel
Note: The RV5 cannot be paralleled. For instructions on other components, please refer to their respective user manuals.	

3.1.2 RV System Wiring



RV system wiring

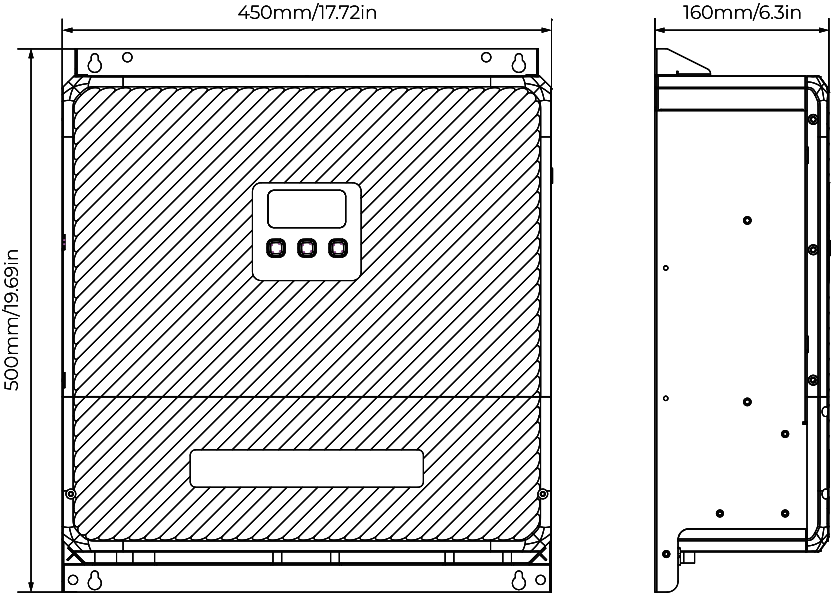
3.1.3 Off-grid System Wiring



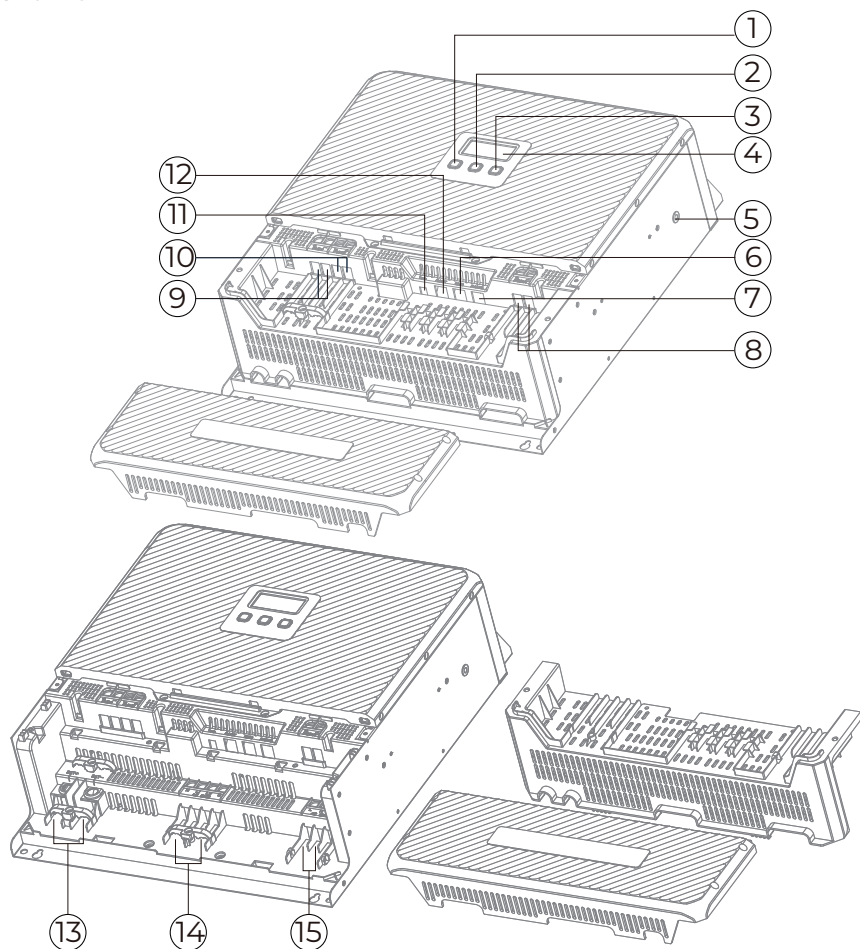
Off-grid system wiring

3.2 RV5 Power Hub

3.2.1 Dimensions



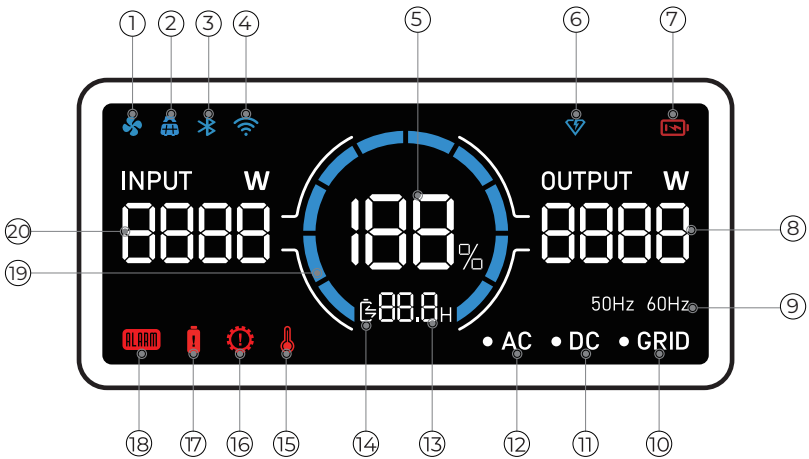
3.2.2 Overview



- | | |
|-----------------------------|-------------------------------------|
| ① DC Power Button | ⑨ PV1 Input |
| ② Power Button | ⑩ PV2 Input |
| ③ AC Power Button | ⑪ Battery Temperature Sampling Port |
| ④ LCD Display | ⑫ Battery Communication Port |
| ⑤ Grounding Terminal* | ⑬ Battery Terminal |
| ⑥ EMS Communication Port | ⑭ AC Input (N/L1/L2/G) |
| ⑦ Epanel Communication Port | ⑮ AC Output (L/N/G) |
| ⑧ 12V/24V DC Output | |

* Used for grounding when powering certain appliances.

3.2.3 LCD Display



- | | |
|----------------------------------|-------------------------------|
| ① Fan | ⑪ DC Output |
| ② DC Input | ⑫ AC Output |
| ③ Bluetooth Connection | ⑬ Remaining Time |
| ④ WiFi Connection | ⑭ Charge / Discharge Status |
| ⑤ State of Charge Capacity (SoC) | ⑮ High Temperature |
| ⑥ Turbo Charging | ⑯ Overload |
| ⑦ Low Battery Alert | ⑰ Overcurrent |
| ⑧ Output Power | ⑱ System Fault |
| ⑨ AC Output Frequency | ⑲ Charge / Discharge Progress |
| ⑩ AC Input | ⑳ Input Power |

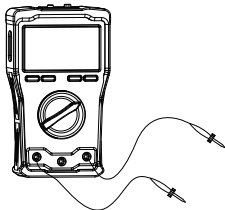
4. Set up Your RV5

	Danger • Do not install the unit below pipes, windows, or in areas prone to water leaks and accumulation. • Disconnect all electrical connections from the unit before installation.
	Warning Do not block ventilation openings or heat dissipation pathways. Restricted airflow can lead to overheating and pose a fire risk.
	Caution • When moving the unit, be mindful of its weight and balance. Take care to avoid tipping or dropping it, as that could result in damage to the unit or personal injury. • Do not lift heavy loads without assistance.

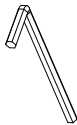
4.1 Required Tools



#2 Screwdriver



Multimeter



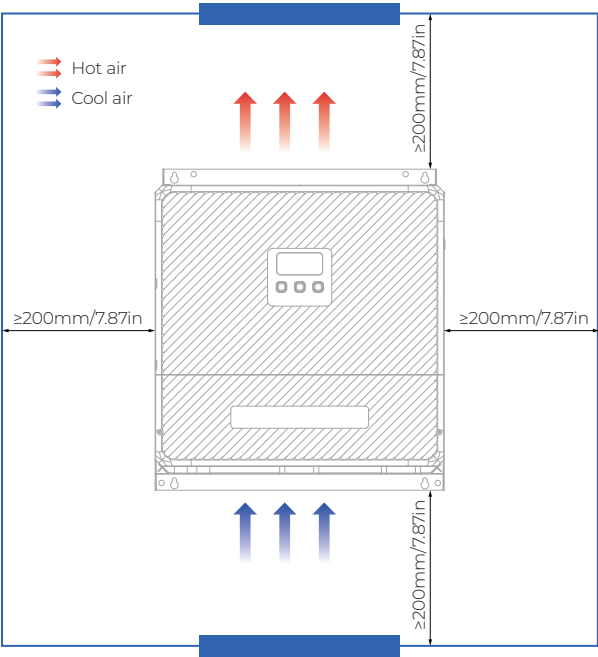
Allen Wrench (6mm)

Note: The listed tools are required for installing the RV5. Please prepare any additional tools and accessories as needed.

4.2 Mount the RV5

4.2.1 Space Requirements

Make sure there's at least 8in (20cm) of space around the unit for cables and airflow as shown below.



Space requirements

If the RV5 operates in a high-temperature environment without proper ventilation, its charging and discharging power will decrease. To maintain performance, ensure the RV5 has adequate ventilation.

Ambient Temperature	Charging Power		Discharging Power		
	AC	DC	AC	12VDC	24VDC
131°F (55°C)	5,000W	3,000W	4,000W	1,000W	1,620W
95°F (35°C)	5,000W	3,600W	5,000W	1,360W	1,620W

Note: The data shown is based on lab tests under controlled conditions and is for reference only. Actual results may vary based on the environment.

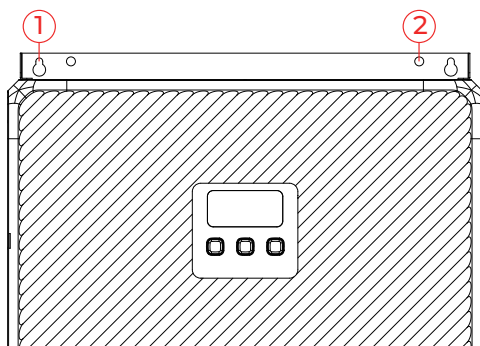
4.2.2 Mounting Instructions



Danger

- Before drilling, check for nearby water pipes or electrical cables to avoid any hazards.
- The included M8 screws and anchors are for wooden and cement walls. Use suitable screws for other surfaces to ensure a secure installation.

RV5 can be installed in two ways: wall-mounted or floor-mounted, using different screw holes shown below.



① Keyhole slots: For wall mounting in stable places like cabins. Not for use in moving vehicles.

② Round holes: For floor mounting in RVs, boats, or other vibration-prone conditions.

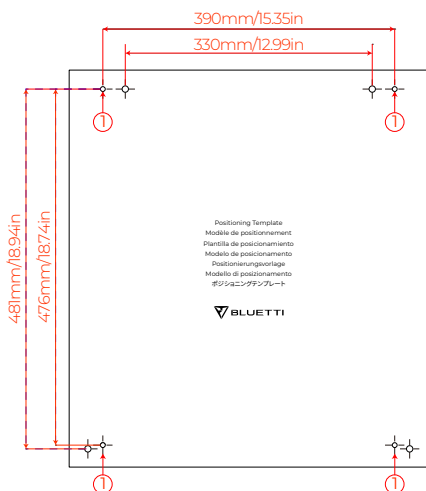
A. Wall-Mounted Installation

Step 1: Select a suitable location. Tape the drilling template to the wall and mark the holes.

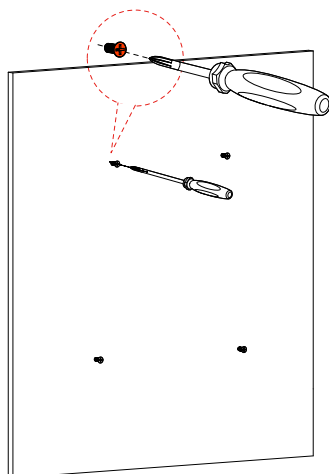
Step 2: Use a #2 screwdriver to fasten the M8 screws into the hole slots.

Step 3: Hang the RV5 on the screws.

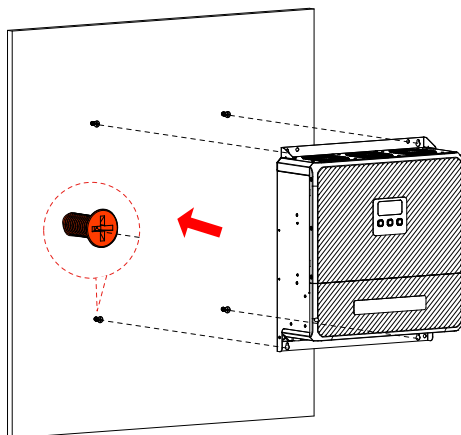
Step 4: Ensure all screws are firmly tightened.



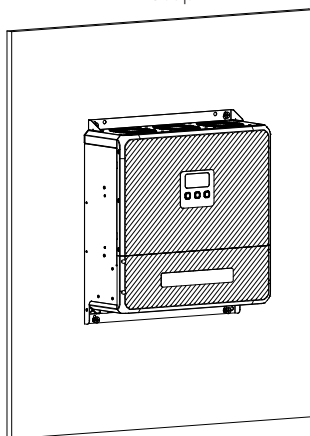
Step 1



Step 2



Step 3



Step 4

Wall-mounted installation

B. Floor-Mounted Installation

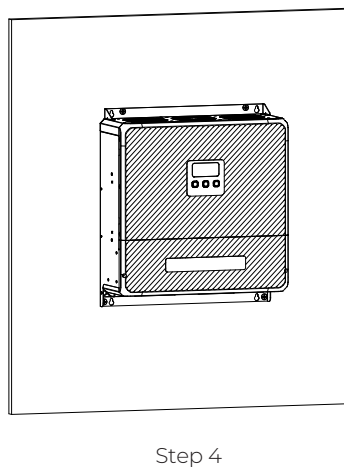
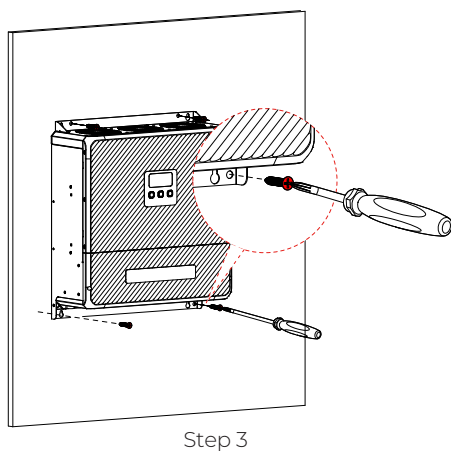
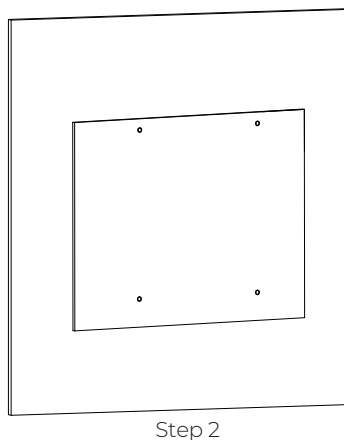
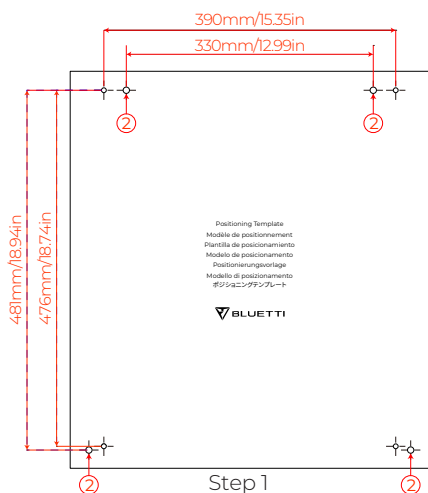
Step 1: Select a suitable location. Tape the drilling template to the wall and mark the holes.

Step 2: For cement walls, drill holes at the marked points and insert the anchors.

Step 3: Secure the unit by driving M8 screws into the anchor.

For other wall materials, drive the appropriate screws into the wall. It's recommended to have 2 people for this.

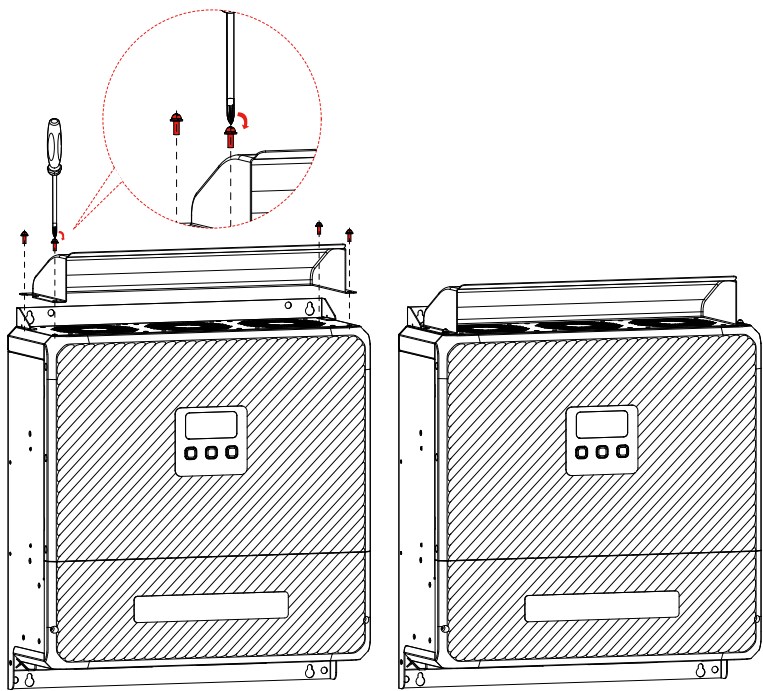
Step 4: Ensure all screws are firmly tightened.



Floor-mounted installation

4.2.3 Install the Waterproof Cover

In rainy areas, you can install the optional waterproof cover above the fan vent to prevent ceiling drips.



Waterproof cover installation

4.3 Wire and Fuse Specifications

For best performance and safety, use the shortest and thickest cables possible. Undersized cables can overheat and cause a fire risk. If you're unsure about the right cable size, contact BLUETTI support or consult a professional.

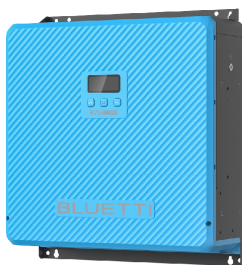
Connection	Wire Gauge	Recommended Fuse	Recommended Switch	Note
48V Battery Connection Cable	0-4 AWG (50-16mm ²)	~200A (Use a fuse rated at ~1.5x current)	Isolated switch (Specifications refer to fuse)	No fuse needed with the B4810 battery. Choose the wire gauge based on load power.
AC Input Cable	6-8 AWG (10-6mm ²)	Built-in fuse with the AC input port	/	Match the wire gauge to your AC input socket specifications.
AC Output Cable	6-8 AWG (10-6mm ²)	/	/	
Solar Charging Cable (PV1/2)	6-8 AWG (10-6mm ²)	/	Circuit breaker (≥60A)	
Vehicle Charging Cable (PV2)	6-8 AWG (10-6mm ²)	~75A	Isolated switch (Specifications refer to fuse)	A fuse is required for vehicle charging.
DC Output Cable	2-4 AWG (25-16mm ²)	/	/	
RJ45 Ethernet Cable	/	/	/	* Required for BLUETTI devices communicating with RV5. Use the shortest cable possible.

* Regarding the choice of network cables, aluminum cables are not recommended due to their higher resistance, which may affect communication and power supply performance between devices.

4.4 Wiring Overview

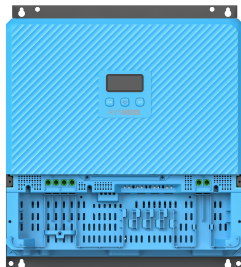
Step 1

Make sure the unit is intact and securely mounted.



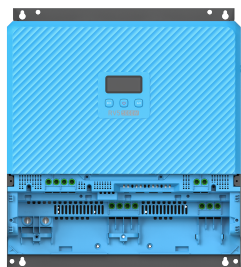
Step 2

Remove the two external screws and take off the first cover. Keep the screws and set the cover aside.



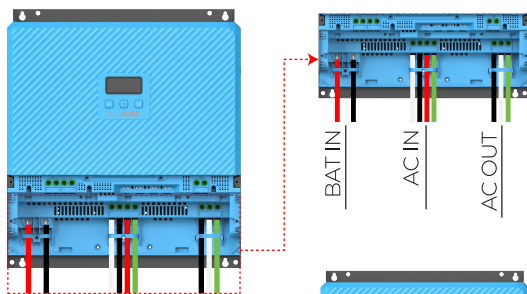
Step 3

Remove the second panel (no screws).



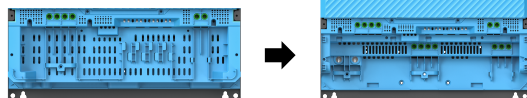
Step 4

Connect the cables as shown and secure them.



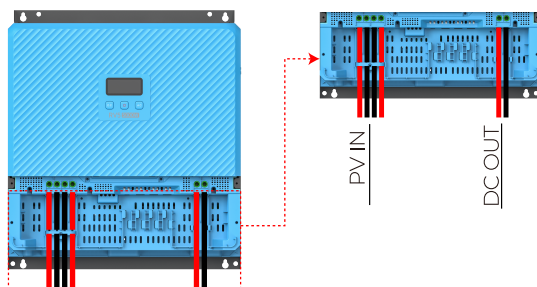
Step 5

Reattach the second panel.



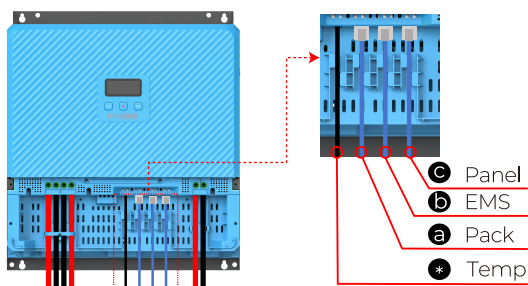
Step 6

Connect the cables as shown and secure them.



Step 7

Connect the communication cables.



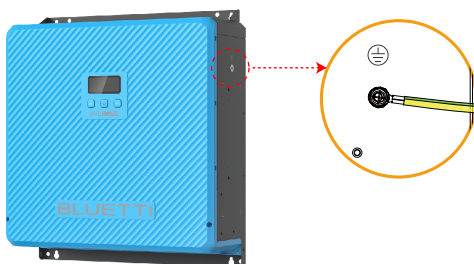
Step 8

Secure the first cover with all screws.



Step 9

Connect the grounding cable.



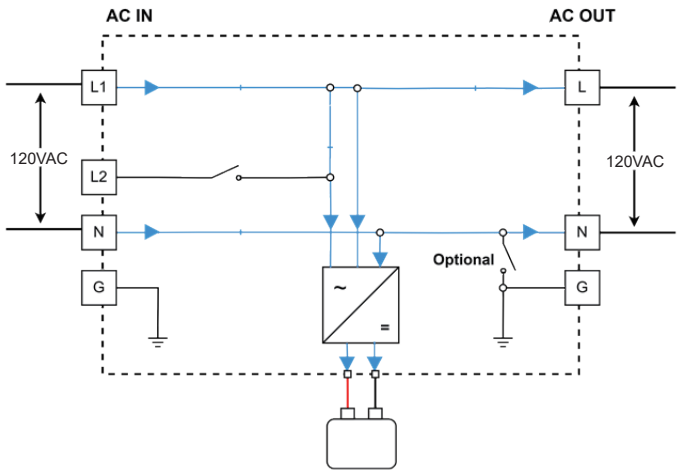
Step 10

Power on the unit and complete the initial setup in the BLUETTI app.

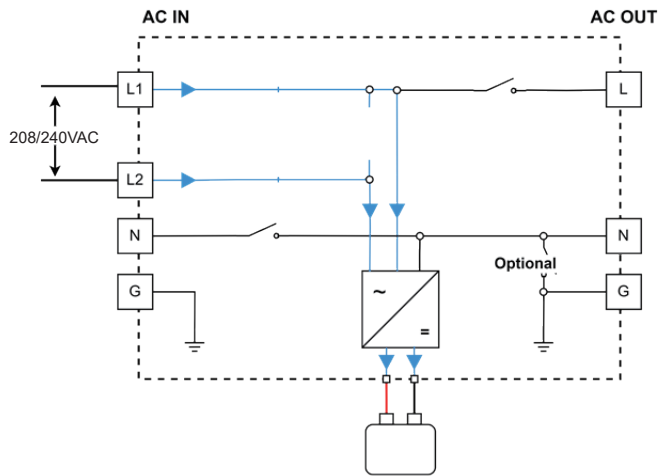


4.5 AC Input Wiring

The RV5 supports both single-phase 120V input and 208V/240V input. Below is the power flow for each mode:



Single phase 120VAC input mode



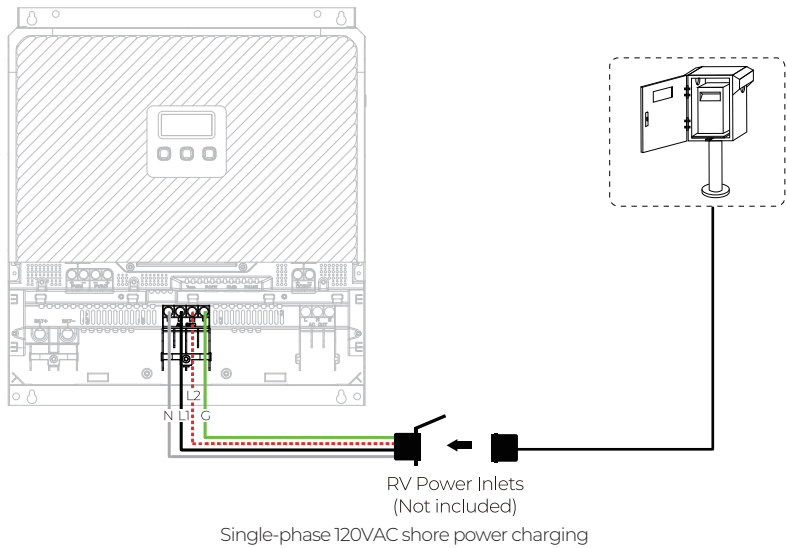
Single phase 208V/240VAC Input mode *

*L1/L2 are used as single-phase L/N lines respectively

4.5.1 Shore Power

Connect the AC input cable from the RV5 to a 120V shore power inlet.

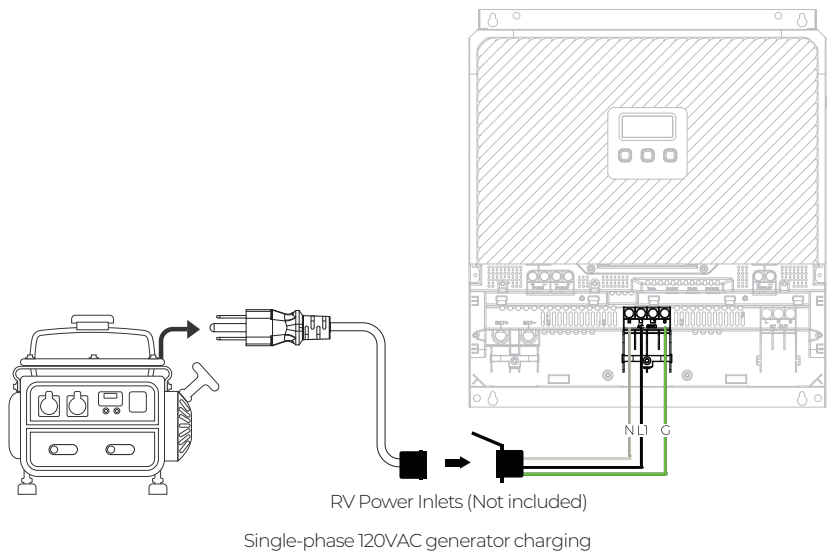
Note: 3-pin or 4-pin RV power inlets are required. In split-phase AC input scenario, RV5 only uses the L1 phase for charging.



4.5.2 Generator

Connect the RV5 to a gasoline, propane, or diesel generator using the AC charging cable. The charging stops automatically when the battery is fully charged.

Note: 3-pin RV power inlets are required.



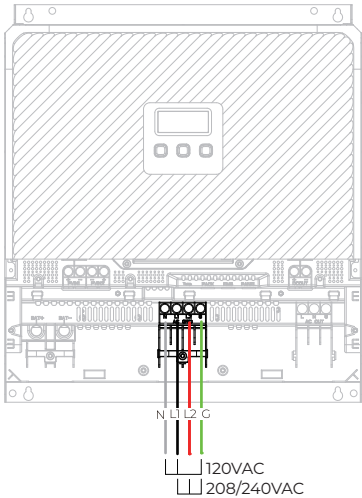
If using the Epad, connect its DO port to the generator's start signal port for black start. For more details, refer to the *Epad User Manual*.

	Attention
	• Make sure the generator delivers a pure sine wave output with matching voltage and frequency. • Ensure the generator's output power exceeds the RV5's charging requirements. • It's recommended to enable the Grid Self-Adaption mode when charging the RV5 with a generator.

4.5.3 208V/240VAC Input mode

RV5 supports 208V/240VAC high-voltage single-phase input to meet special application scenarios. This mode does not support bypass.

If you have any questions about this mode, please contact BLUETTI's technical support.

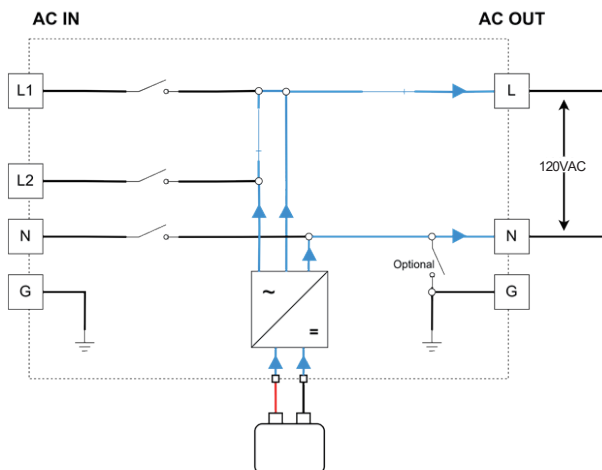


Single-phase 208V/240V charging

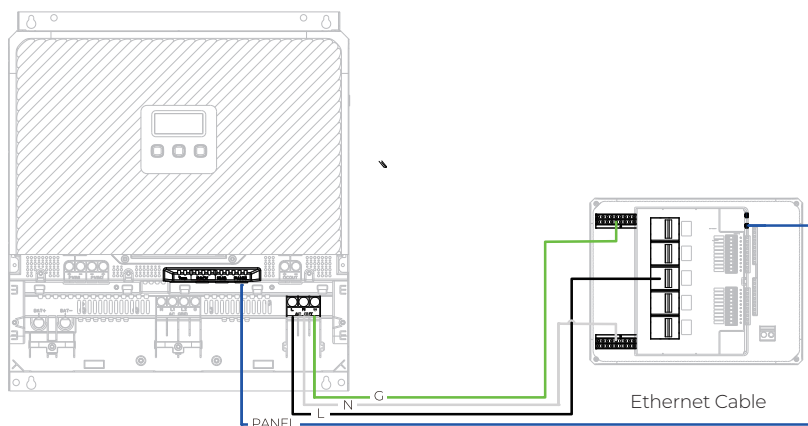
	Attention
	• Enable 208V/240VAC charging in the app before use. Disconnect the AC loads during charging, as bypass output is not available while charging.

4.6 AC Output Wiring

The RV5 supports AC output of up to 5,000W and 42A for single-phase 120V AC appliances. In bypass mode, it can handle up to 6,000W and 50A.



For optimal performance, it's recommended to use the Epanel to manage the AC output current. For details, refer to the *Epanel User Manual*.



AC output wiring with Epanel

Step 1: Prepare three power cables (bare ends on both sides) and one RJ45 Ethernet cable. Then, unscrew the AC output seal cover.

Step 2: Insert the bare ends of the power cables into the corresponding terminals (L/N/G), and connect the other ends to the Epanel. Make sure there are no exposed cables.

Step 3: Ensure that all connections are secure.

	Warning • Before servicing any connected devices, physically disconnect them from the RV5. • If the AC output terminals are not in use, keep the seal covers in place.
	Attention • For a permanently wired system, install a ground-fault circuit interrupter (GFCI) at the AC output to protect all branch circuits. We recommend using the Blue Sea Systems GFCI breaker (PN3093). • Use an overcurrent protection device for the branch circuit. It's recommended to use it with the Epanel.

4.7 Battery Wiring

The RV5 supports 48V battery systems and is compatible with various battery types. To protect your battery, the RV5 applies different current-limiting strategies, with a maximum current of 150A.

Battery Model		Configuration	Current Limit	Notes
B4810		1S1P	1C (A)	For setups with more than 8 batteries, Edocks are required. See Appendix 1 for wiring details.
		1SnP (n = 24P Max.)	150A	
B1210/B1232		4S1P	1C (A)	See Appendix 2 for wiring details.
		4SnP (n = 24P Max.)	150A	
B300 Series	B300	1SnP (n = 4P Max.)	75A	Necessary adapter cables needed. See Appendix 3 for wiring details.
	B300K	1SnP (n = 6P Max.)	75A	
	B300S		75A	
Lead-Acid Battery		48V	1C (A)	For details, refer to the relevant user manual.
Non-communication Lithium Battery		48V	1C (A)	

	Attention When using lead-acid or non-communication lithium batteries, ensure the total voltage is 48V.
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4.7.1 Wiring Instructions



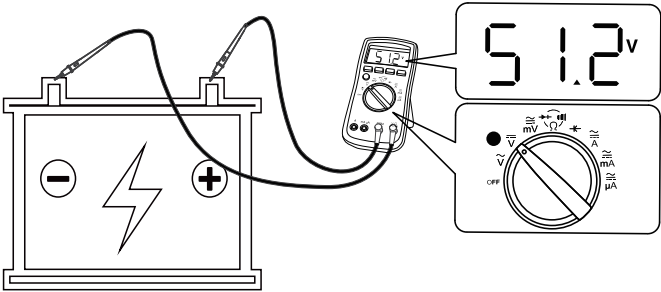
Warning

The RV5 battery terminal doesn't have reverse polarity protection. Ensure the battery is connected with the correct polarity, as indicated on the port. If you're unsure, use a multimeter or consult a qualified electrician.

To check the battery polarity and voltage with a multimeter:

Step 1: Set the multimeter to DC voltage mode.

Step 2: Connect the positive lead to the battery's positive terminal (red) and the negative lead to the negative terminal (black).



Battery polarity check

Step 3: Check the reading:

- **48V to 56V:** The polarity and voltage are correct. You can continue wiring.
- **Negative reading:** Reverse the connections.
- **Outside 48V to 56V:** Verify the battery's condition and check the wiring.

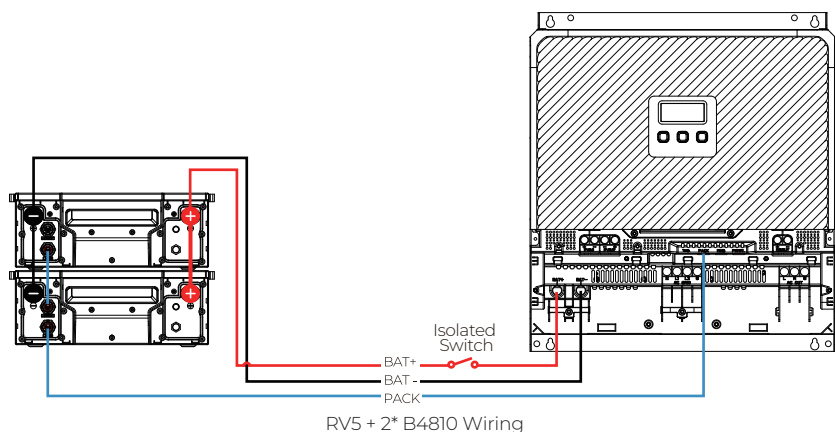


Attention

The B4810 and B1210 battery packs have reverse polarity protection. If the polarity is incorrect, an E091 error will appear and the power button indicator will flash. For more details, refer to the battery pack's user manual.

4.7.2 B4810 Battery

For full power output, it's recommended to pair the RV5 with two B4810 battery packs for 10kWh of capacity. With one B4810, the maximum output is about 4,320W. An Ethernet cable is also required for connection with the B4810. Refer to chapter 4.11 for details.



- Step 1:** Prepare the pre-assembled B4810 battery packs based on your load requirements, an isolated switch that meets the specifications, and 3 connecting wires (2 red, 1 black). The connecting wires should be as short and thick as possible.
- Step 2:** Connect the black power cable from the RV5's BAT- port to the B4810's main negative terminal.
- Step 3:** Install the isolated switch in a convenient location and use a long red wire to connect the B4810's main positive terminal and the isolated switch.
- Step 4:** Use a short red wire to connect the other port of the isolated switch (OFF state) to the BAT+ port of the RV5
- Step 5:** Ensure that all connections are secure.

	Danger The RV5 supports stacking up to 3 B4810 units. Stacking more packs could damage the battery casing and pose a safety risk.
	Warning • Power off the battery before connecting. • Do not disconnect the battery while it's operating.

4.7.3 Lead-acid Batteries & Non-communication Lithium Batteries

	Attention • For optimal performance and safety, it is recommended to use the temperature sensor cable. Attach it to the battery surface to help the RV5 adjust its operation based on temperature, ensuring more accurate and safe charging. • When connecting lead-acid batteries, ensure they are of the same brand and voltage, as lead-acid batteries don't have a balancing feature. Do not mix different capacities or combine new and used batteries. • When using a lead-acid battery for the first time, please discharge the battery pack to 0% and then fill it up to 100% Soc.
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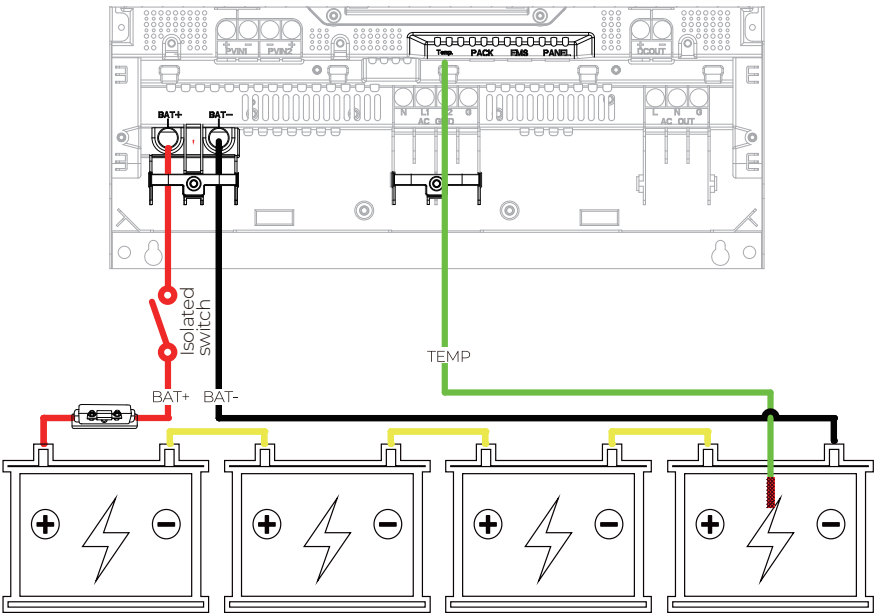
The maximum charging current for lead-acid batteries is set at 0.2C, with the constant charging voltage adjusted for temperature. Non-communication lithium batteries have a maximum charging current of 0.5C.

To protect your lead-acid batteries, avoid frequent or prolonged high-rate discharges as they can shorten battery life and reduce capacity. It's recommended to choose the right battery size based on your actual power needs. See the table below for guidance.

Load Power at 0.1C (AC + DC) (For long-term use)	6,600W	4,320W	2,100W	900W	450W
Max. Load Power* (For short-term use)	6,600W	6,600W	6,600W	6,600W	4,320W
Recommended Total Battery Capacity	1,500Ah	1,000Ah	500Ah	200Ah	100Ah
Recommended Series-Parallel Configuration (Based on 12V/100Ah battery)	4S15P	4S10P	4S5P	4S2P	4S1P
Recommended Wire Gauge (Battery to RV5)	0 AWG (50mm ²)	2 AWG (25mm ²)	2 AWG (25mm ²)	2 AWG (25mm ²)	4 AWG (16mm ²)

* Based on 90% efficiency

If you have any questions, please contact BLUETTI support for assistance.



RV5 + lead-acid batteries wiring (4S1P)

- Step 1:** Wire the 12V lead-acid battery packs in series and parallel to achieve a total voltage of 48V, ensuring correct polarity.
- Step 2:** Prepare a isolated switch and fuse that meet the specifications, 4 connecting wires (3 red, 1 black), and the connecting wires should be as short and thick as possible.
- Step 3:** Use the black wire to connect the total negative terminal of the battery to the BAT- port of RV5.
- Step 4:** Use 3 red wires to connect the BAT+ port, isolated switch, fuse and battery positive terminal of RV5 respectively.
- Step 5:** Insert the temperature sensor cable into the battery's temperature sampling port and attach the other end to the battery surface.
- Step 6:** Ensure that all connections are secure.

	Warning When using lead-acid batteries or non-BLUETTI battery packs: 1. Ensure correct wiring polarity. Damage from reversed polarity is not covered under warranty. 2. Use a properly rated overcurrent protection device, such as a fuse or DC circuit breaker.
	Attention • When used with a lead-acid battery, turn the RV5 on or off using the power button on the RV5 or Epad. • At high discharge rates, lead-acid battery voltage may drop, which can trigger overcurrent protection and prevent the device from reaching full output power.

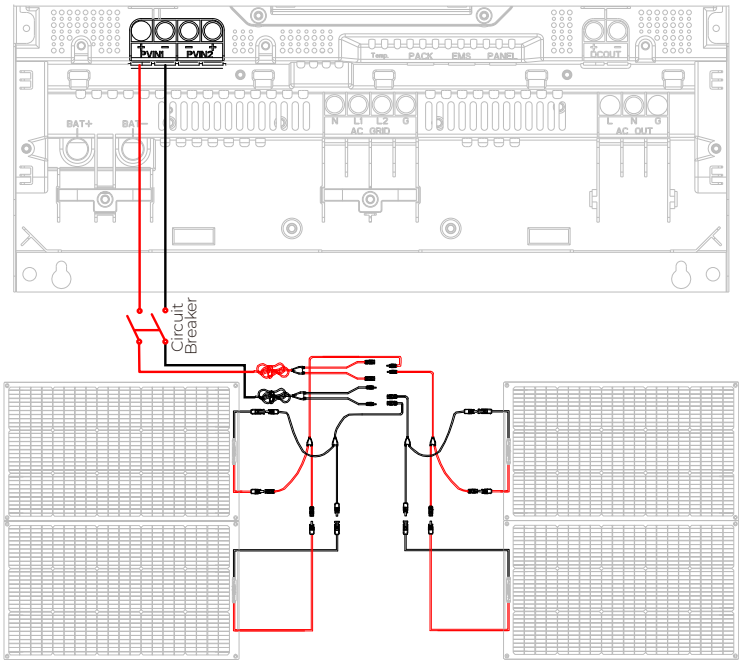
4.8 DC Input Wiring

4.8.1 Solar Panel

	Danger • Make sure your solar panel(s) meet the following requirements: Voc: 12V-50V Current: 50A Max. Power: 1,800W Max. • Do not ground the solar panels' positive and negative terminals.
	Attention Do not charge the RV5 using the vehicle's cigarette lighter port. It is recommended to use a circuit breaker that meets the specifications on the PV input side to avoid sparks.

The RV5 comes with two DC input ports, PV1 and PV2. Each supports up to 50A and 1,800W of solar charging power, totaling 3,600W. The charging time may vary based on weather conditions, sunlight intensity, panel orientation, and other variables.

Note: PV2 input source must be configured in the app.



RV5 + 4* PV100 FX wiring

- Step 1:** Prepare the connected PV100 FX solar array, a PV input circuit breaker that meets the specifications, and two 1-to-2 MC4 adapter cables (one red and one black).
- Step 2:** Use two 1-to-2 adapter cables and connect the MC4 end to the MC4 interface of the PV100 FX and the other end to the PV input circuit breaker according to the wiring diagram above.
- Step 3:** Use a short wire to connect the PV input circuit breaker to the PV1 port of the RV5 (red is positive and black is negative).
- Step 4:** Ensure that all connections are secure.
- For the recommended setup, see the table below. For more details, refer to the *PV100 FX User Manual*.

Input Power	PV100 FX Panels	Series-parallel solution
400W	4	1S2P * 2
800W	8	1S4P * 2
1,600W	16	1S8P * 2

4.8.2 Vehicle (12V/24V)

Attention

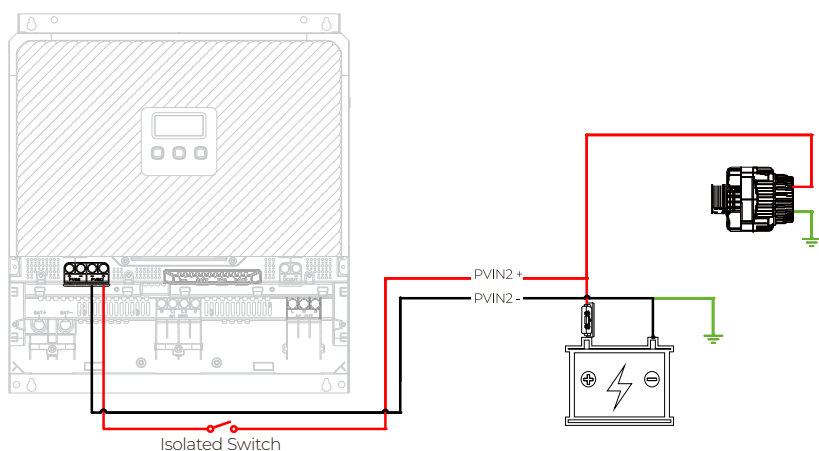


For safety, always install a fuse or other overcurrent protection on the starter battery ports. Damage caused by missing protection is not covered under warranty.

If you're unsure about the required fuse rating, consider using the optional cable kit provided by BLUETTI or contacting BLUETTI support for assistance.

Connect the RV5 to your vehicle's starter battery via the PV2 ports. The required connection cable and fuse are included in the optional cable kit. Once fully charged, the RV5 will stop charging automatically.

Charging power may vary based on your vehicle's output and environmental conditions. To prevent battery drain, set the charging current in the app according to your alternator's capacity.



Vehicle charging wiring

Step 1: Prepare a isolated switch and fuse that meet the specifications, as well as 3 connecting wires (2 red and 1 black).

Step 2: Connect the negative terminal of the starting battery to the RV5 PV2- port using the black wire harness.

Step 3: Install the fuse on the positive terminal of the starting battery, and connect the other end of the fuse to the isolated switch using the long red wire harness.

Step 4: Connect the isolated switch (off state) to the RV5 PV2+ port using the short red wire harness.

Step 5: Make sure all connections are secure.

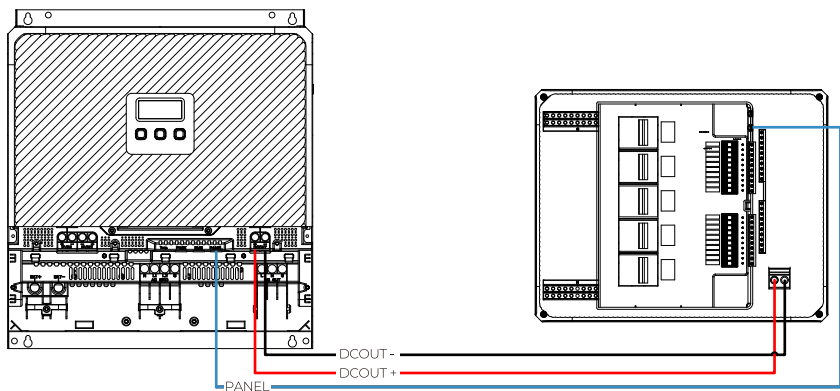
4.9 DC Output Wiring

The RV5 supports both 12V and 24V DC output. Select the appropriate voltage based on your battery system requirements and configure the settings before first use. For setup details, refer to the *App User Manual*.

Supported Output:

- **12V:** 100A, up to 1,360W
- **24V:** 60A, up to 1,620W

It's highly recommended to use the Epanel smart distribution panel along with an Ethernet cable to manage the DC output. Refer to chapter 4.11 for details.



DC output wiring with Epanel

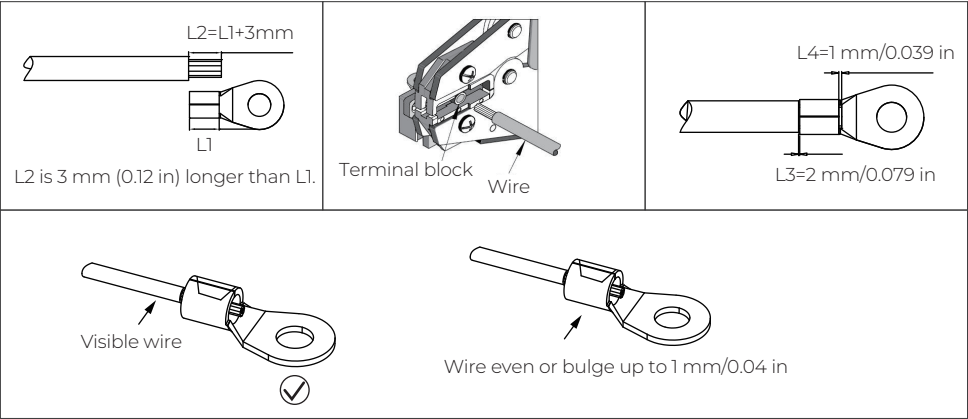
- Step 1:** Prepare two 2 AWG power cables (bare ends on both sides—red for positive, black for negative).
- Step 2:** Insert the two ends of the cables into the DC OUT+/DC OUT- ports, and the other ends into the Epanel's DC IN+/DC IN- ports.
- Step 3:** Ensure all cables are fully secured with no exposed wires.
- To power a leveling system, connect it to the DC busbar before any distribution device. This setup supports high-current surges up to 100A at 12V.

	Danger Do not connect battery packs to the RV5's DC output ports, as battery charging is not supported.
	Attention To change the DC output voltage, turn off the DC output and wait for 1 minute before adjusting the settings.

4.10 Grounding

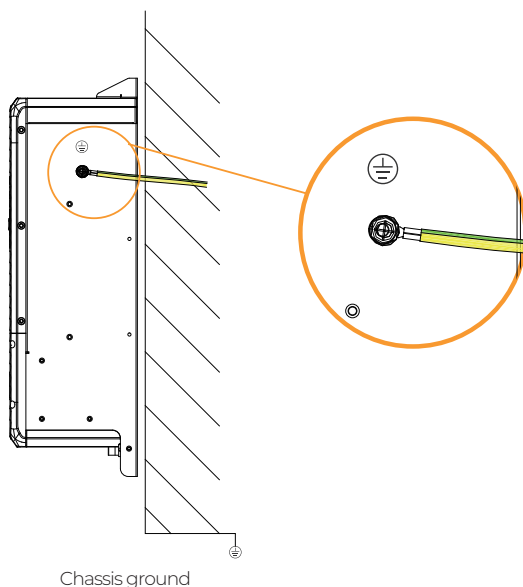
For temporary AC input connections, such as in an RV or marine setup, the unit must be grounded to the vehicle chassis or the boat's hull or grounding plate. Follow the instructions below for proper installation:

- Step 1:** Prepare a grounding cable (recommended to use 10mm² yellow-green outdoor cable), RNB14-6S OT terminal, and M6 screws (pre-installed on the unit).
- Step 2:** Strip the insulation layer of the grounding cable with a cable stripper to a proper length. Insert the exposed core wires into the RNB14-6S OT terminal and crimp them with a crimp.



Grounding cable assembly

- Step 3:** Fix the OT terminal with M6 screws at the position shown in the figure below. Securely ground the other end of the cable in the favorite way. Recommended torque: 2 Nm.



Grounding cable installation

The RV5 also supports an off-grid TT earthing system, i.e. neutral-ground bonding. For details, refer to chapter 5.3.4.



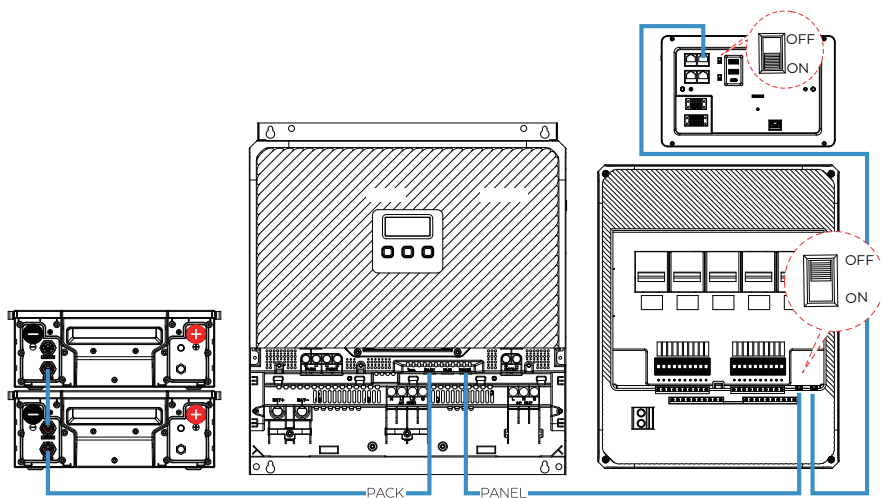
Danger

Follow local regulations for proper grounding. Incorrect grounding may pose a risk of electric shock. If you're uncertain, consult a qualified electrician.

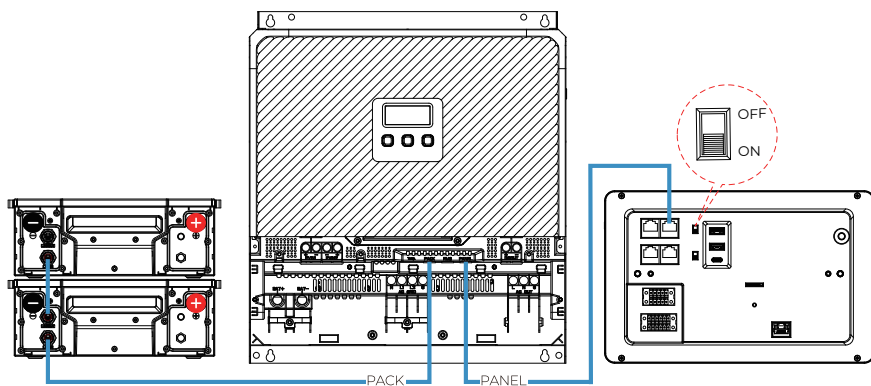
4.11 CAN Communication Wiring & Configuration

To ensure seamless communication among your BLUETTI devices, connect and configure them as shown below. Incorrect setup may lead to communication issues.

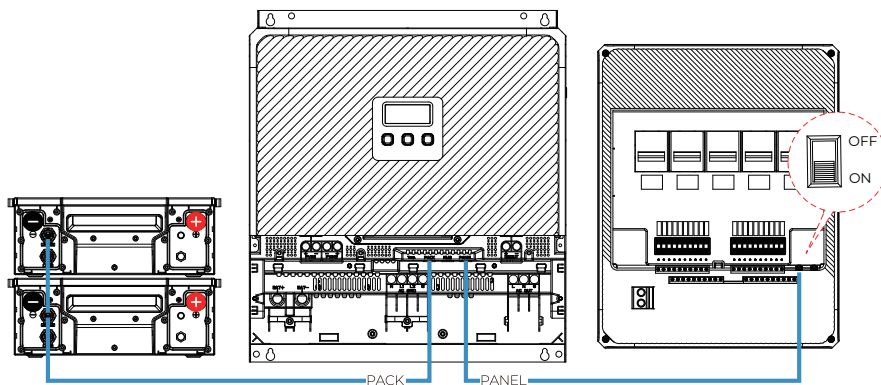
Note: Do not plug the battery communication cable into the Epad or Epanel ports. If you're unsure about your setup, contact BLUETTI support for assistance.



RV5 + B4810 + Epanel + Epad



RV5 + B4810 + Epad



RV5 + B4810 + Epanel

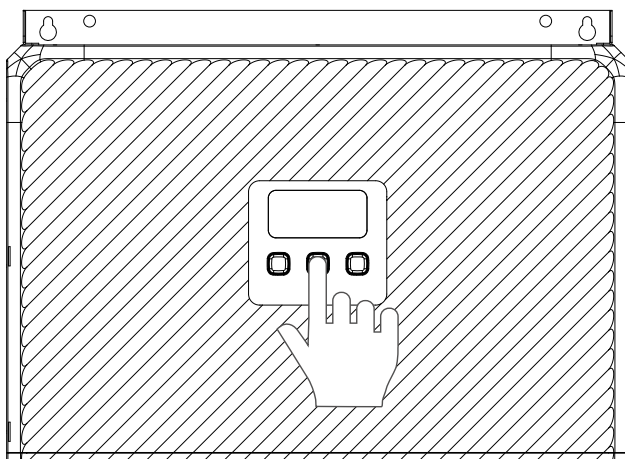
5. Use Your RV5

5.1 Power On/Off



Attention

Before use, double-check that all connections are correct and secure. Once confirmed, cover both the inner and outer panels. Keep the casing intact during operation, and do not open any covers to avoid exposing the ports, leading to electric shock.

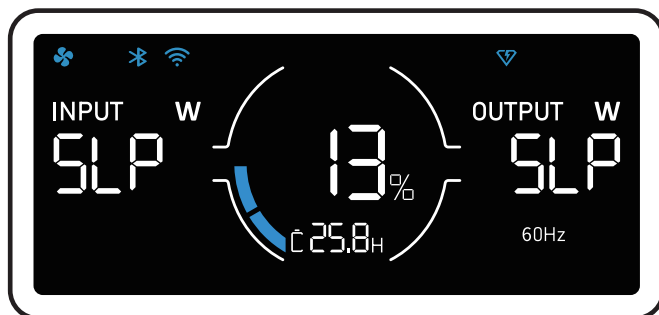


A. Power On

Press and hold the power button for 2 seconds while it's off or in sleep mode. The lit button indicates that the RV5 is on. For initial use, complete the setup in the app.

If you're using BLUETTI B4810, B1210, B1232, or B300 series batteries, you can also power on the unit via the app.

B. Sleep Mode



The RV5 features a sleep mode to extend battery life. In this mode, it charges the battery with up to 100W solar power while keeping the display off. When connected to a network, the RV5 also supports remote wake-up.

Enter the mode: With the unit on, press and hold the power button for about 2 seconds until the display turns off. For app instructions, refer to the *App User Manual*.

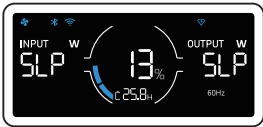
Exit the mode: Press and hold the power button for about 2 seconds until the display turns back on.



Attention

- The sleep mode is disabled when AC input is detected. Any AC power source will automatically wake the unit.
- In sleep mode, the unit maintains low-power solar charging. All ports remain live—avoid contact to prevent electric shock.
- This mode can only be enabled via the app.

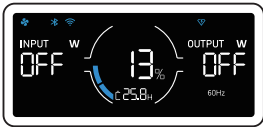
C. Power Off



① 3s



② 1.5s



③ 8s

Press and hold the power button for 5 seconds until "OFF" appears on the display (③). The display will first enter sleep mode (①), then turn off (②). When the APP turns off the sleep mode, the display will not see the SLP interface.

Note: The unit cannot be powered off while connected to solar or AC input. To shut it down, disconnect the solar and AC sources physically or turn off the circuit breaker first.



Attention

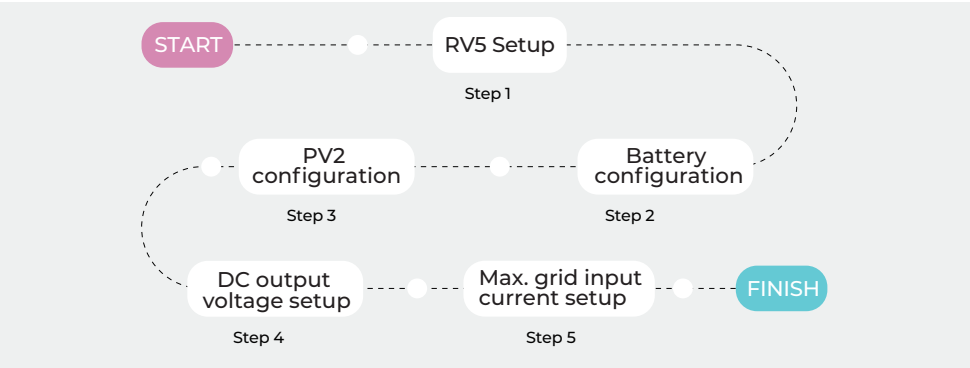
- When the RV5 is on (not in sleep mode), press any button to activate the display.
- Startup time may vary depending on the connected battery type.

5.2 Initial Setup



Attention

Configure the ports in the app before first use.



Initial app configuration

Note: For detailed configurations, refer to the *App User Manual*.

5.3 Configure Your RV5

5.3.1 Charging Mode

The RV5 offers three charging modes: Standard, Turbo, and Silent. You can set Turbo and Standard modes directly on the unit, or use the app to set any of the three modes. Charging stops automatically once the battery is fully charged, and the charging power is limited by the grid's maximum input current and battery capacity. By default, the unit charges in Standard mode.

Mode	Charging Power			Charging Time	
	AC	PV	AC + PV	for 1* B4810	for 2* B4810
Standard	1,440W Max.	2,000W Max.	2,000W Max.	2.5 hours	4.5 hours
Turbo 	5,000W Max.	3,600W Max.	8,600W Max.	80% charge in 45 mins; full charge in 1.5 hours	80% charge in 50 mins; full charge in 2 hours
Silent	1,200W Max.	1,200W Max.	1,200W Max.	4 hours	7.5 hours

5.3.2 Adjust Grid Input Current

The default maximum grid input current is 12A. Use the app to increase it up to 50A. For safety, set the maximum input current to 80% of your outlet's rated capacity. Alternatively, consult an electrician to confirm that the outlet can handle the current.

5.3.3 Grid Self-Adaption Mode

When connecting with a generator or unstable grid power, or if consumption power exceeds charging power, enable this mode in the app. The RV5 automatically adjusts to handle power fluctuations, protecting the unit and connected devices from potential issues due to variations in power quality.

You can also adjust the input voltage limits in the app's advanced settings to match your power needs. For details, please refer to the App User Manual.

5.3.4 Neutral-Ground Bonding

The RV5 has a built-in neutral-ground bonding relay, which automatically manages the neutral-to-ground connection based on the inverter's operating mode when enabled in the app's Advanced Settings.

- When the inverter is connected to AC power:

The AC input relay closes, and the neutral-ground bonding relay opens. The neutral-to-ground connection is provided by the AC source, allowing RCD, RCCB, RCBO, or GFCI protection devices to function properly.

- When there is no AC input:

The AC input relay opens, and the neutral-ground bonding relay closes, internally bonding neutral to ground. At this time, the RCD, RCCB, RCBO, or GFCI also are able to function properly.

For details, refer to the *App User Manual*.

	Danger Follow local regulations for proper grounding. Incorrect grounding may pose a risk of electric shock. If you're uncertain, consult a qualified electrician.
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5.4 Button Control

- ① **Enter the Settings Mode:** Press and hold the AC and DC power buttons simultaneously.
- ② **On the P01 page:**
 - Adjust settings: Press the DC power button to navigate through the items, and press the AC power button to adjust.
 - View information: Long press the DC power button to view the unit's SN, and press it again to navigate through information. When on  page, long press the AC power button to clear the history.
- ③ **Exit the Settings Mode:** Press and hold both the AC and DC power buttons again.

6. Maintenance and Care

Always power off the system before performing maintenance tasks such as cleaning, checking connections, and verifying grounding. The RV5 requires regular maintenance, including:

- Inspect and clean the fan, fan guard, and heat sink if dust or blockages are present.
- Ensure that the fan operates smoothly without any abnormal noise.
- Check and tighten input and output cable connections using a torque wrench. For frequent mobile use, inspect the connections at least once a month.

7. Specifications

Model		RV5
Battery Terminal*		
System Voltage		48V
Max. Input/Output Current		150A
AC Input		
Standard AC Input (N/L1/G)	Rated Input Voltage	120V
	Rated Input Current	42A
208V/240V AC input (L1/L2/G)	Rated Input Voltage	208V/240V
	Rated Input Current	22A (Bypass not supported)
Input Frequency		60Hz ±3Hz
Bypass		50A Max.
Charging Power		5,000W Max.**
Uninterruptible Power Supply (UPS)		
Switchover Time		≤20ms
AC Output		
Rated Output Voltage		120V
Rated Output Current		42A
Rated Output Frequency		60Hz
Rated Output Power		5,000W**

PV1/PV2 Input		
PV1/PV2 (Solar)	Max. Input Power	1,800W
	Input Voltage	12V to 50V
	Max. Input Current	50A
PV2 (Vehicle Charging)	Max. Input Power	600W (12V) 1,200W (24V)
	Input Voltage	12V to 14.4V (12V battery) 24V to 28.8V (24V battery)
	Max. Input Current	50A
DC Output		
Rated Output Voltage		12V/24V
Rated Output Current		100A (12V) 60A (24V)
Rated Output Power		1,360W (12V) 1,620W (24V)
General		
Weight		Approx. 35.27lbs (16kg)
Dimensions		17.72 × 19.69 × 6.30in (450 × 500 × 160mm)
Operating Temperature		-4°F to 131°F (-20°C to 55°C) Power output decreases above 113°F (45°C).
Storage Temperature		-4°F to 131°F (-20°C to 55°C)
Operating Altitude		≤6,561.68ft (2,000m)
Operating Humidity		95% Max.
Certification		UL 458, CSA C22.2 No.107.1, UL 1741, FCC Part 15B, ICES-003 Issue 7

* Compatible with B4810, B1210, B1232, B300 series, and other lithium and lead-acid batteries. Power limits may vary based on the connected battery capacity.

** Power limits may vary with ambient temperature (see Chapter 4.2.1) and battery capacity.

8. Troubleshooting

On the Error Code page, the  and error code appears simultaneously on the display. See the table below for guidance.

Error Code	Description	Solutions
E001	Inverter overload	• Check device power usage. • Reduce load if too high.
E002	Inverter overtemperature protection, AC output off	• Wait 10 mins for the unit to cool down. • Turn on the AC output again.
E003	Inverter short circuit	• Check device for short circuits. • Disconnect the fault and fix.
E026	Unit overload	• Verify the battery pack is properly connected. • Check if the power usage exceeds the battery terminal's limit.
E033	PV1 overvoltage	• Make sure the PV1 input voltage is within 12V-50V.
E034	PV2 overvoltage	• Make sure the PV2 input voltage is within 12V-50V.
E036	PV1 overcurrent	• Make sure to use solar panel(s) as the input source. • If the voltage from the panels is higher than the battery voltage, just wait until the battery voltage rises above the panel voltage. The system will recover automatically.
E037	PV2 overcurrent	
E039	PV1 overtemperature	• Wait 10 mins for the unit to cool down. • Re-enable the PV1 input.
E040	PV2 overtemperature	• Wait 10 mins for the unit to cool down. • Re-enable the PV2 input.
E065	DC output short circuit	• Disconnect DC loads, and restart the RV5.
E067	DC output overcurrent	• Disconnect DC loads, and restart the RV5.
E068	DC output overtemperature	• Wait 10 mins for the unit to cool down.

E070	Battery system communication failure	• Ensure the Ethernet cable is properly connected to the battery pack. • If using a non-communication battery, make sure it's set accordingly.
E081	Battery overvoltage	• Disconnect the input source.
E085	Charging temperature too high	• Place the battery in an ambient temperature range of -4°F to 131°F (-20°C to 55°C) .
E086	Charging temperature too low	
E087	Discharging temperature too high	
E088	Discharging temperature too low	
E113	Grid overvoltage	• Verify home grid voltage. • Contact utility company or enable the Grid Self-adaption mode if necessary.
E114	Grid undervoltage	• Verify home grid voltage. • Contact utility company or enable the Grid Self-adaption mode if necessary.
E115	Grid overfrequency	• Verify home grid frequency. • Contact utility company if necessary.
E116	Grid underfrequency	• Verify home grid frequency. • Contact utility company if necessary.
E117	Grid oscillation	• Verify the grid's stability. • Enable the Grid Self-adaption mode if necessary. • Please check if 208V/240VAC charging mode is enabled when 208V/240VAC is connected.
E121	PV configuration error	• Check if the PV2 port is configured correctly.
E129	Battery pack communication failure	• Ensure all battery communication cables are securely connected. • Confirm the number of connected battery packs in the app.
Others	/	• Contact BLUETTI support for assistance.

FAQs (Frequently Asked Questions)

Q1: Can I use third-party solar panels with this unit?

A: Yes, you can use third-party solar panels with open circuit voltage of 12V-50V. Avoid mixing different types of solar panels.

Q2: Does it support charging and discharging at the same time?

A: Yes, RV5 supports pass-through charging as long as 208V/240VAC charging is not activated.

Q3: Why is the charging power often too low?

A: The built-in BMS adjusts the charging power based on battery temperature and SoC to protect the battery and extend its life.

Q4: Why can't I run the load at full power with a lead-acid battery?

A: The RV5 limits the current from lead-acid batteries to protect the terminals and cables. If the battery voltage drops too low, this can prevent the RV5 from providing full power to the load.

Q5: Does the product provide a plug for installation? Do I need to purchase an additional plug (interface) to connect the product?

A: RV5 is designed with a universal cable port, and the cable is directly connected, without the need to purchase an additional socket connection.

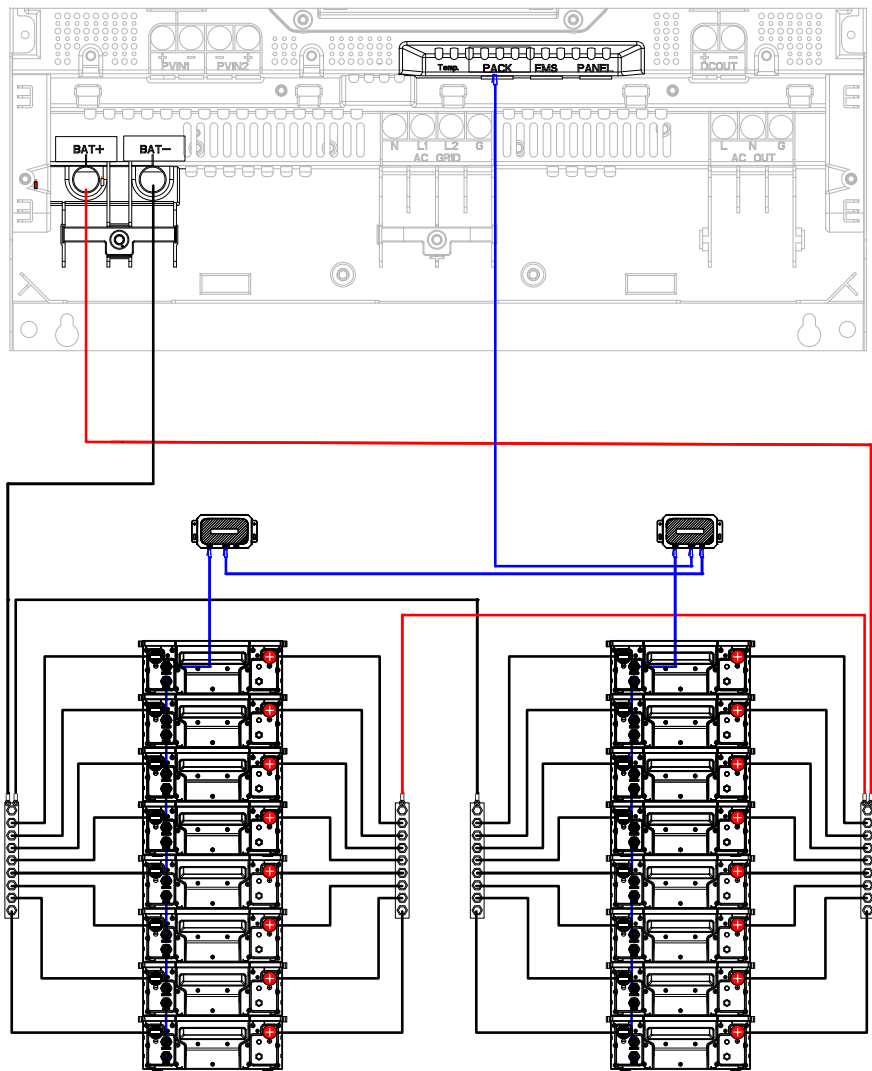
Q6: Does RV5 vehicle charging mode affect fuel consumption?

A: RV5 efficiently utilizes the excess power from the car's alternator for the power station, minimizing fuel consumption.

Q7: Does RV5 support the use of multiple battery packs of different brands in series?

A: The series connection of battery packs of different brands can easily lead to unbalanced voltage of the battery pack, affecting the battery life, and in severe cases, it can cause electrical risks. Please strictly follow the user manual of the corresponding battery pack.

Appendix 1



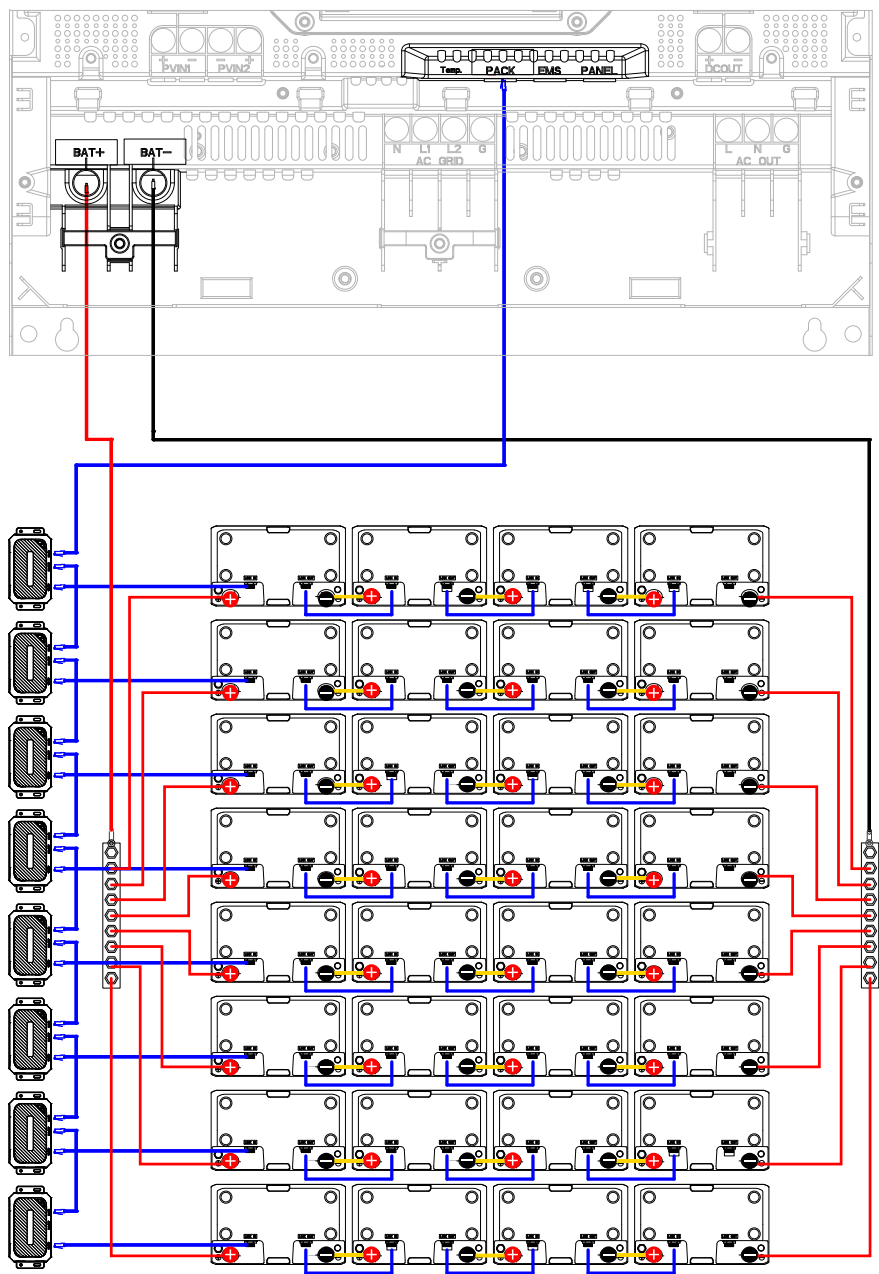
B4810 + Edock connection

Choose the appropriate busbar pair size based on the number of connected battery packs, ensuring a minimum current capacity of 150A.

For more than two B4810 units, we recommend using a busbar pair to keep cable lengths consistent for each connection to the RV5.

For details, please refer to the B4810 User Manual.

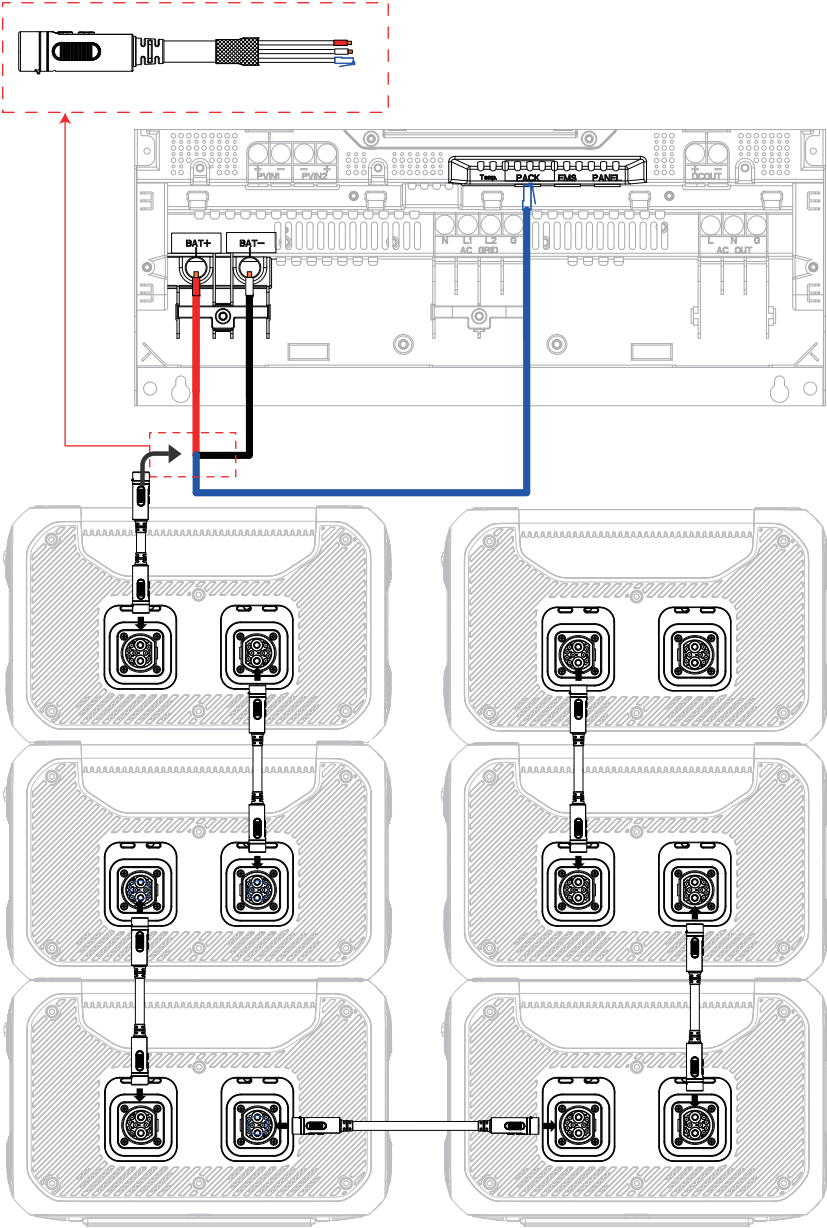
Appendix 2



B1210 + Edock connection

For details, please refer to the B1210 User Manual.

Appendix 3



B300K connection

Note: The RV5 supports connecting up to four B300 units. For details, please refer to the B300 series user manuals.

Compliance

• FCC Statement

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation Exposure Statement

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

• **IC Caution**

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.

RF exposure statement: The equipment complies with IC Radiation exposure limits set forth for uncontrolled environments. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

CAN ICES (B)/NMB(B) (Canada)

This Class B digital apparatus complies with Canadian ICES-003.