We know you care.

Choosing to go solar is a huge step toward being sustainable. Go-green with Renogy without compromising on a comfortable lifestyle.



Solar 800W 3.84kWh Extension Solution

QUICK GUIDE VERSION AO



Before Getting Started

The quick guide provides important installation instructions for Renogy Solar 800W 3.84kWh Extension Solution. For detailed operation and maintenance tips, refer to user manual of the specific product at renogy.com/support/downloads.

Read the quick guide carefully before installation. Failure to observe the instructions or precautions in the quick guide can result in electrical shock, serious injury, or death, or can damage the included products, potentially rendering them inoperable.

- Renogy ensures the accuracy, sufficiency, and the applicability of information in the quick guide or 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 quick guide.
- Renogy is not responsible or liable for any failure, damage, or injury resulting from repair attempts by unqualified personnel, improper installation, or inappropriate operation.
- The illustrations in the quick guide are for demonstration purposes only. Details may appear slightly different depending on product revision and market region.
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Disclaimer

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Statutes and Regulations

The mechanical and electrical installation of solar panels should refer to the appropriate regulations, including electrical code, building code and electrical connection requirements. These regulations vary depending on the location of the installation, e.g., building rooftop installation, vehicle-mounted applications, etc. Requirements may also vary with the voltage of the installation system, the nature of the current (DC or AC). Please contact your local authority for specific terms.

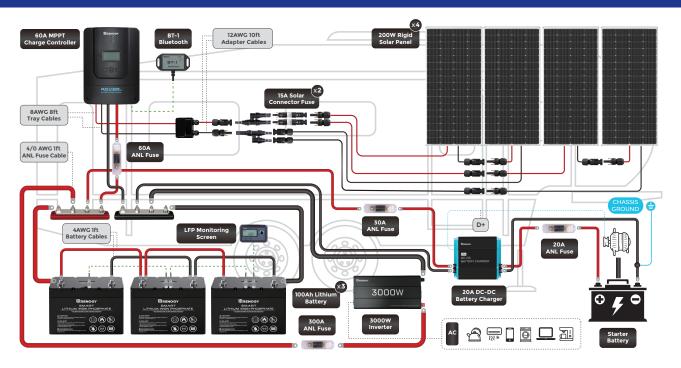
DC Home App





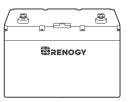


1. System Wiring



2. Get to Know Renogy Solar 800W 3.84kWh Extension Solution

Battery



100Ah Lithium Battery × 3

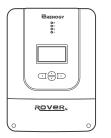
Charge Controller



4AWG 1 ft Battery Interconnect Cables × 4



4/0AWG 5 ft Battery Cables (Battery to Busbar) × 1



60A MPPT Charge Controller × 1



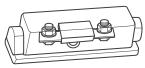
8AWG 8 ft Tray Cables (Controller to Busbar) × 1



8AWG 2 ft ANL Fuse Cable (60A Fuse to Busbar) × 1

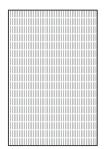


Renogy BT-1 Bluetooth Module (New Version) × 1



60A ANL Fuse × 1

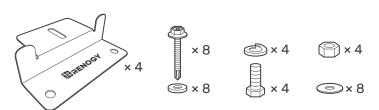




200W Rigid Solar Panel × 4



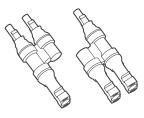
15A Solar Connector Fuse × 2



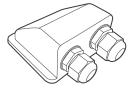
Solar Panel Mounting Z Bracket × 4



12AWG 10 ft Solar Panel Extension Cables × 2



Solar Branch Connector (MMF + FFM Pair) × 1



Solar Entry Gland × 1

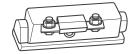


12AWG 10 ft Solar Panel to Charge Controller Adapter Kit × 1

DC-DC Battery Charger



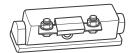
20A DC-DC Battery Charger × 1



30A ANL Fuse Set w/Fuse (input) ×1



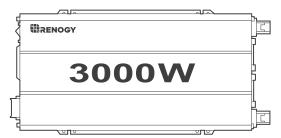
4AWG 8 ft Double Ring Tray Cables (DC-DC - Busbar) × 1



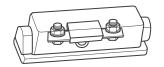
20A ANL Fuse Set w/Fuse (output) × 1

10AWG 2 ft ANL Fuse Cable × 1



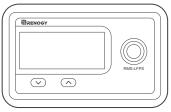


3000W Inverter × 1



300A ANL Fuse × 1





Monitoring Screen for Smart Lithium Battery × 1

4P Busbar Pair



4/0AWG 5 ft Battery Inverter Cables (Inverter to Busbar) × 1



4/0AWG 1 ft ANL Fuse Cable × 1

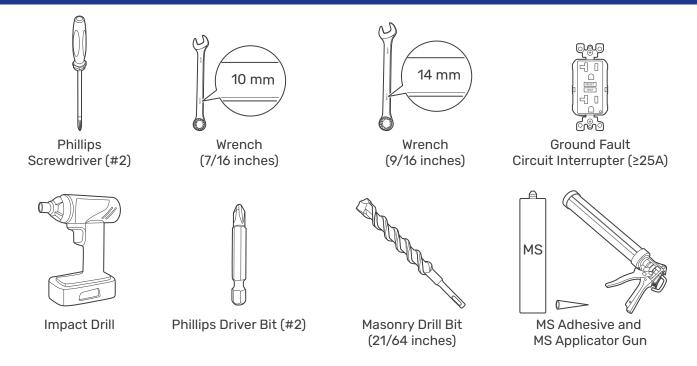


RJ45 to RJ45 Lithium Battery Communication Cables × 2

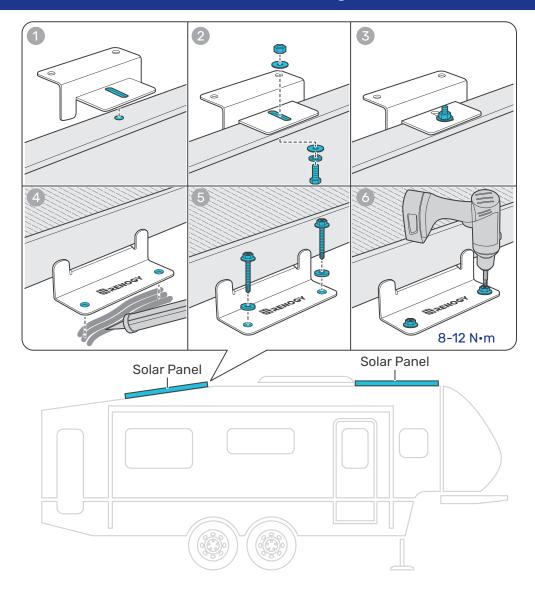


4P Busbar Pair (Red and Black) × 1

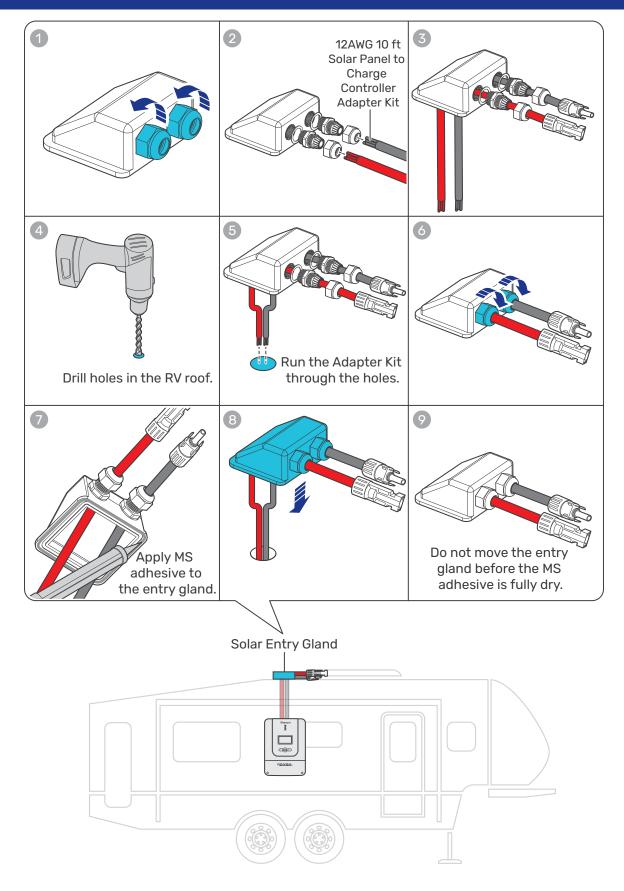
3. Required Tools & Accessories



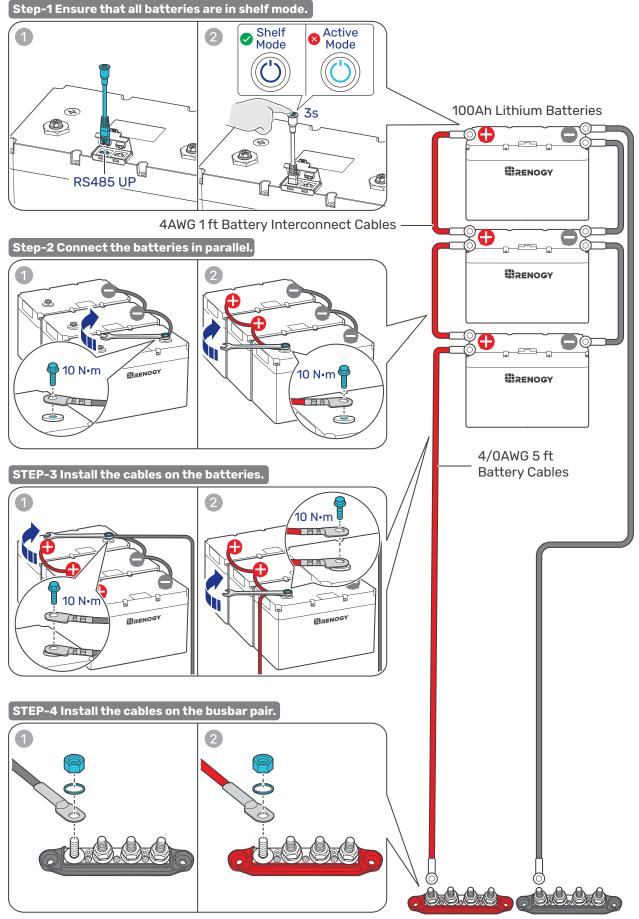
4. How to Install the Solar Panel Mounting Z Bracket



5. How to Install the Solar Entry Gland

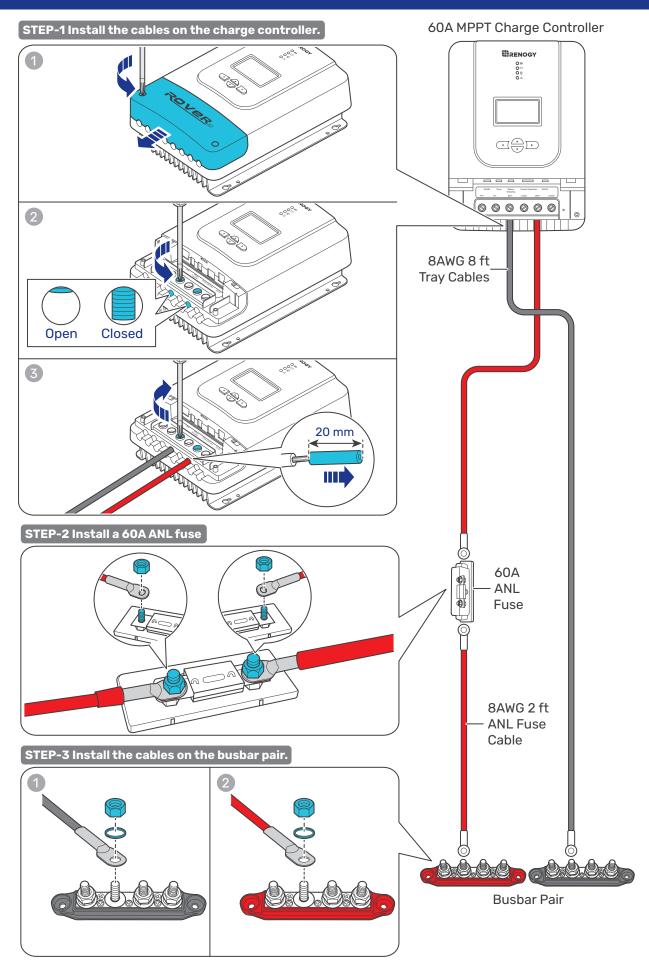


Step 1. Connect the Batteries in Parallel

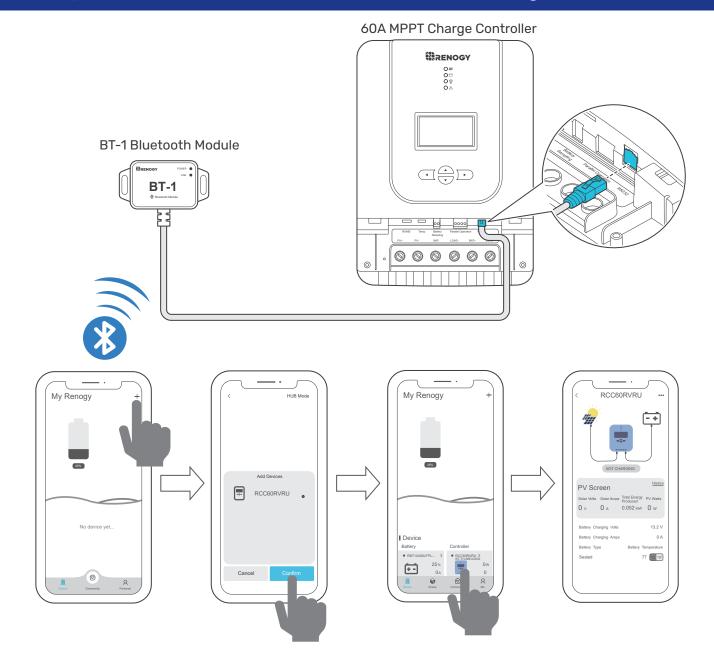


Busbar Pair

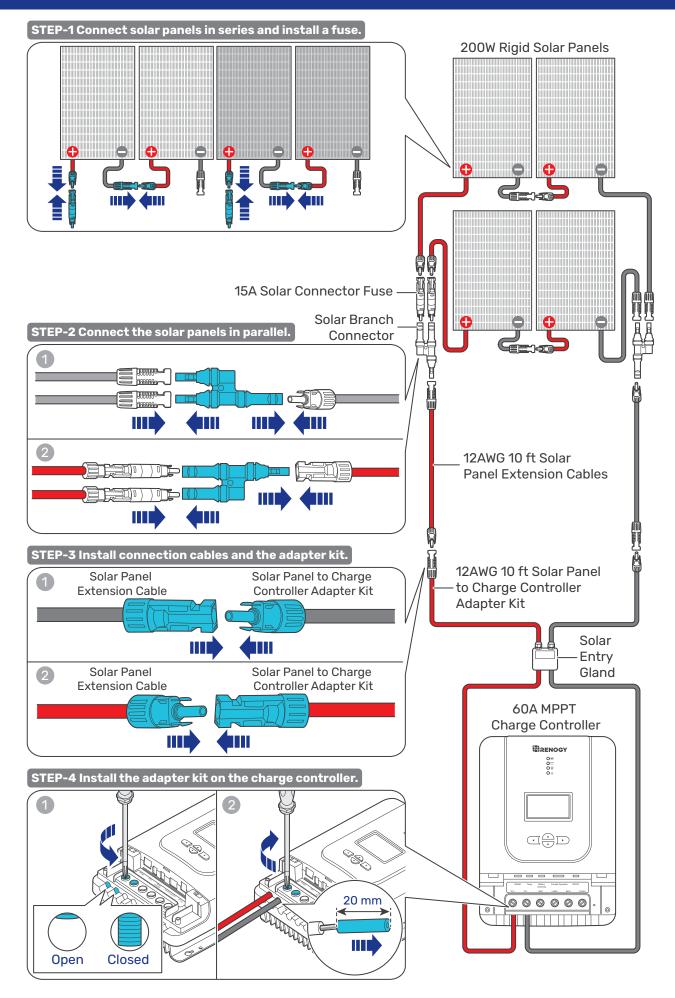
Step 2. Connect the Charge Controller to the Batteries



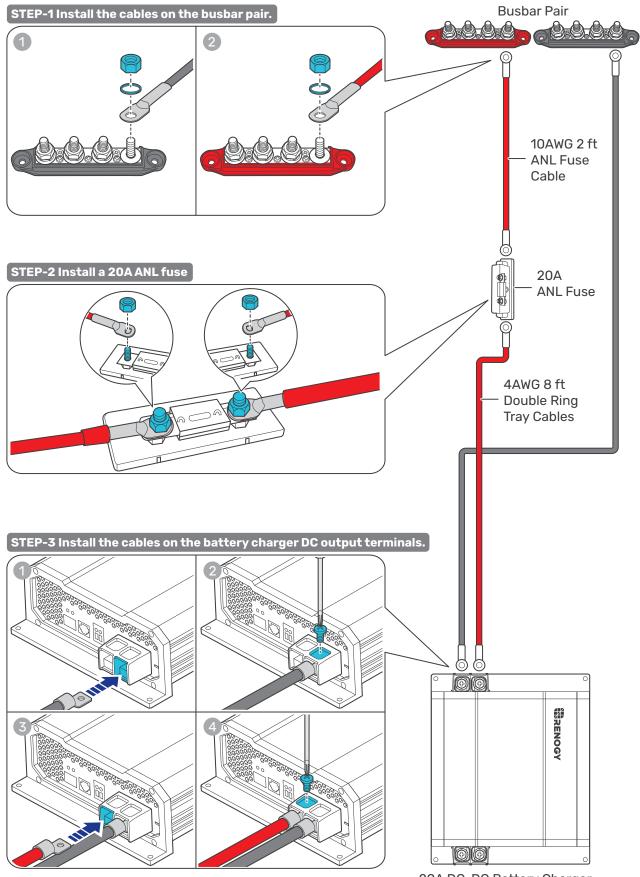
Step 3. Connect the Bluetooth Module to the Charge Controller



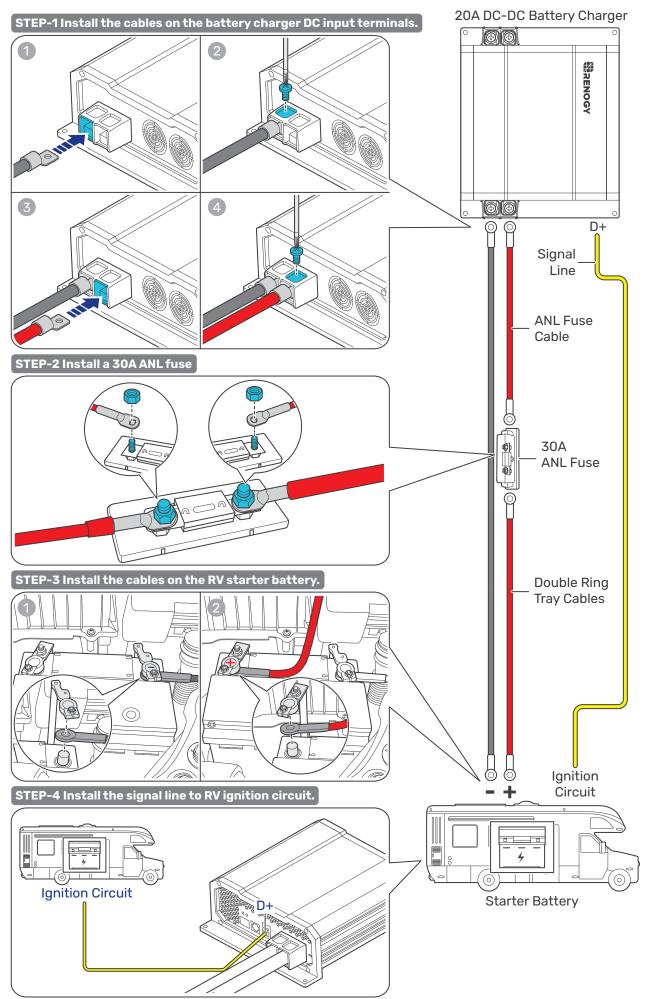
Step 4. Connect the Solar Panels to the Charge Controller



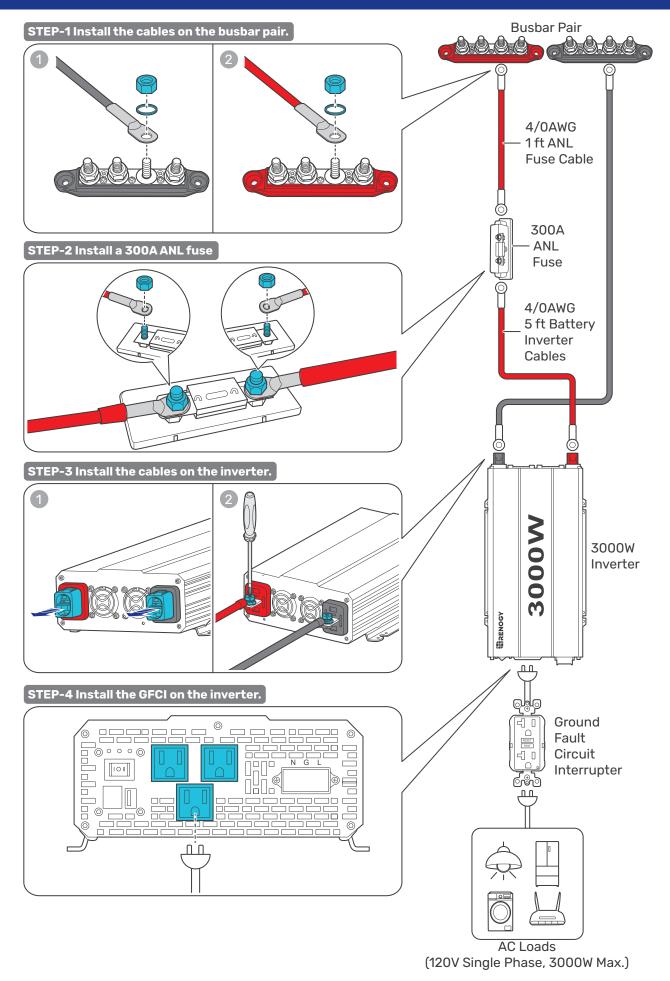
Output Wiring



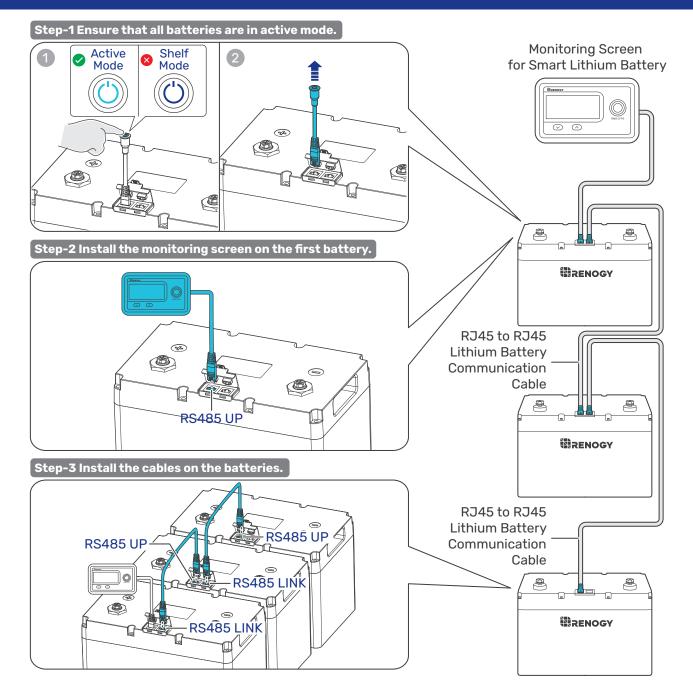
Input Wiring



Step 6. Install the Inverter and Loads



Step 7. Communication and Monitoring Wiring



Renogy Support

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

| (G | renogy.com/support/downloads |
|------------|------------------------------|
| | ζm |

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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:

(G | renogy.com/contact-us বন্দ্যি 1(909)2877111

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| South Korea 🌐 kr.renogy.com | Germany |
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Safety Information

General

- 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 devices.
- Keep the devices out of the reach of children.
- Do not dispose of the devices 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.
- If the devices are installed improperly on a boat, it may cause damage to components of the boat. Have the devices by a qualified electrician.
- Do not expose the devices to flammable or harsh chemicals or vapors.
- Clean the devices regularly.
- Do not puncture, drop, crush, penetrate, shake, strike, or step on the devices.
- Do not open, disassemble, repair, tamper with, or modify the devices.

Battery Safety

- Do not use batteries if there is any damage.
- Do not touch the exposed electrolyte or powder if the battery is damaged.
- Risk of explosion! Never install the charge controller, battery charger, and inverter in a sealed enclosure with flooded batteries! Do not install the charge controller, battery charger, and inverter in a confined area where battery gases can accumulate.
- Prior to installing the devices, ensure all battery groups are installed properly.

Charge Controller, Battery Charger, and Inverter Safety

- Install the devices indoors on a vertical surface protected from direct sunlight, high temperatures, water. Make sure there is good ventilation.
- Keep the devices away from heating equipment.
- Do not insert foreign objects into the devices.
- Confirm the polarities of the devices before connection. A reverse polarity contact can result in damage to the devices, thus voiding the warranty.
- Do not touch the connector contacts while the devices are in operation.
- Disconnect all connectors from the devices before maintenance or cleaning.
- Ensure the inverter is firmly grounded to a building, vehicle, or earth grounded. Keep the inverter away from EMI receptors such as TVs, radios, and other audio/visual electronics to prevent damage / interference to the equipment.

Solar Panel Safety

- Do not install the solar panel on a surface constructed from combustible material.
- Do not expose the solar panel to direct flame or heat sources.
- Keep the solar panel away from explosives and corrosive substances.
- Do not step, walk, stand or jump on the solar panel. Localized heavy loads may cause damage to the solar cells, which will ultimately compromise the performance of the solar panel.
- Do not band the solar panel. Bending the solar panel will cause damage to the cells and affect panel performance.
- Do not immerse the solar panel in water.

😼 Renogy Empowered

Renogy aims to empower people around the world through education and distribution of DIY-friendly renewable energy solutions.

We intend to be a driving force for sustainable living and energy independence.

In support of this effort, our range of solar products makes it possible for you to minimize your carbon footprint by reducing the need for grid power.

Live Sustainably with Renogy

Did you know? In a given month, a 1kW solar energy system will...



Save 170 pounds of coal from being burned



Save 300 pounds of CO_2 from being released into the atmosphere



Save 105 gallons of water from being consumed

Renogy Power PLUS

Renogy Power Plus allows you to stay in the loop with upcoming solar energy innovations, share your experiences with your solar energy journey, and connect with like-minded people who are changing the world in the Renogy Power Plus community.





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