

RENOGY ONE

Core

RSHGWSN-W02W-G1/RSHGWSN-W02W-G2

RENOGY
SUPERIOR OFF-GRID SOLUTIONS

VERSION A2
August 30, 2024



QUICK GUIDE



Before Getting Started

The quick guide provides important operation and maintenance instructions for Renogy ONE Core (hereinafter referred to as Core). Renogy ONE Core comes in two models: RSHGWSN-W02W-G1 (no CAN communication) and RSHGWSN-W02W-G2 (supports CAN communication).

Read the quick guide carefully before operation and save it for future reference. Failure to observe the instructions or precautions in the quick guide can result in electrical shock, serious injury, or death, or can damage the Renogy ONE Core, potentially rendering it inoperable.

- Renogy ensures the accuracy, sufficiency, and the applicability of information in the quick guide at the time of printing due to continual product improvements that may occur.
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Online Manual



Quick Guide



User Manual



What's In the Box?

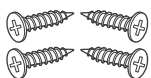


RENogy ONE Core × 1

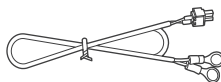


Quick Guide × 1

M3.5*14mm

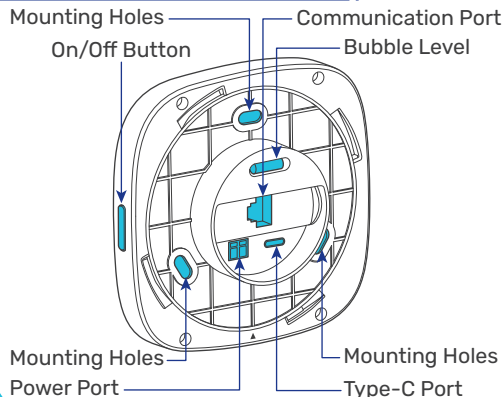


Mounting Screws × 4
(1 extra)

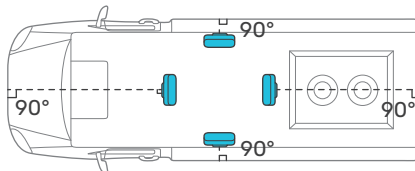


Power Cable (5m) × 1

Get to Know RENogy ONE Core



Installation Site and Environment



≤5000m



-4°F to 158°F

-20°C to 70°C



0% to 95%



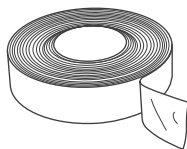
NOTE

- To enable the RV leveling function on Renogy ONE Core, ensure it is installed in a spot with the screen pointing to the front, rear, left, or right side of the RV, vertically to the RV floor. It is recommended that RV leveling blocks should be used during the leveling process.

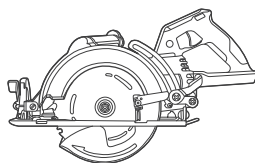
Required Tools



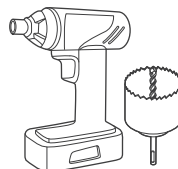
Phillips Screwdriver (#1)



Insulation Tape



Skill Saw



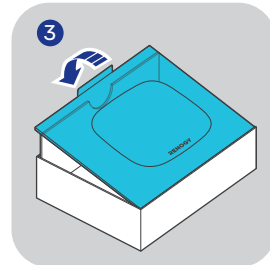
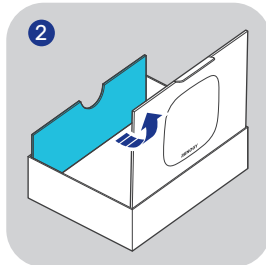
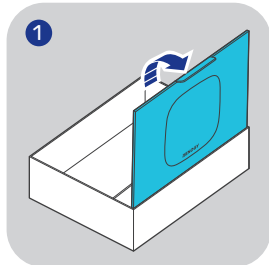
Impact Drill with
Hole Saw, 2.17in/55mm

i NOTE

- Tools are required only when the Core is flush mounted on a wall.
- You can use either a skill saw or an electric drill with hole saw.

Step 1 (A). Place Renogy ONE Core on a Table

The package box is environmentally friendly. You can use it as a bracket to hold the Core when installing it on the wall is not required.



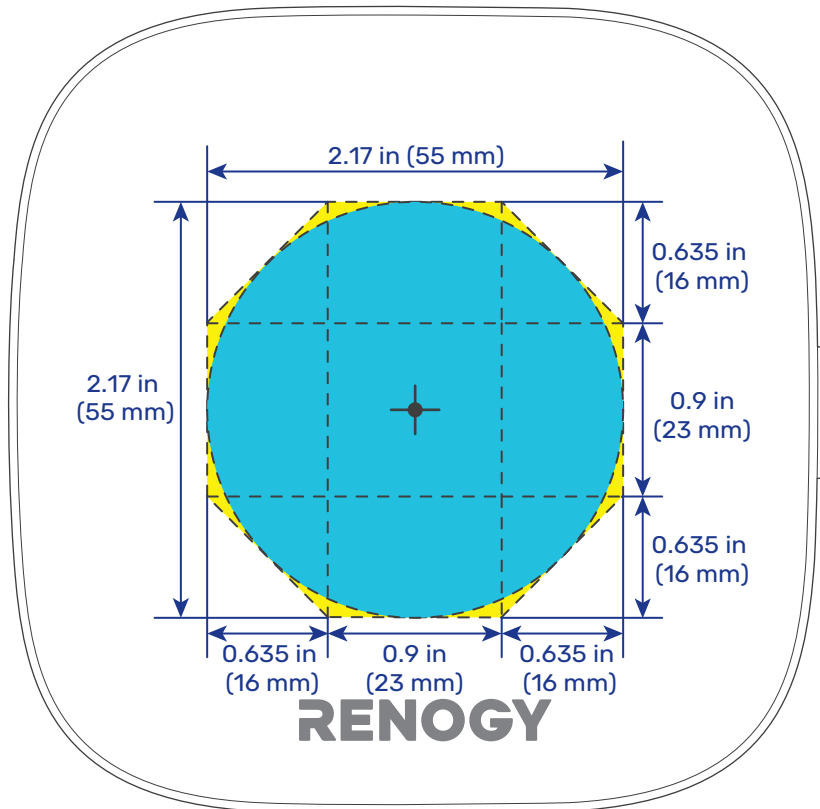
i NOTE

- The RV leveling function is unavailable on Core when it is placed on a table.



Mounting Template

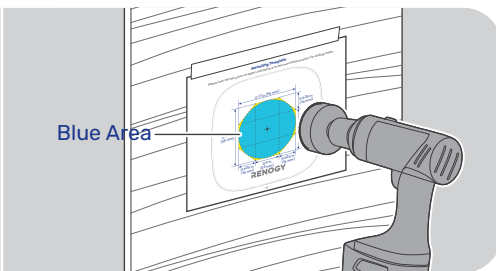
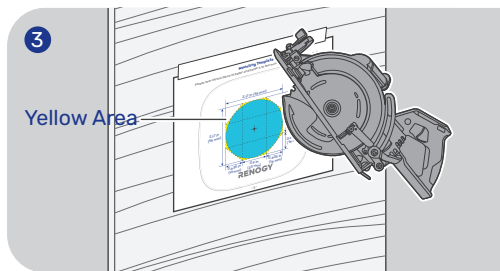
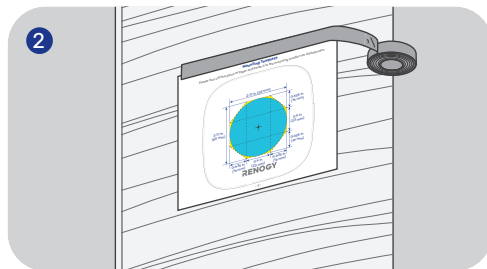
Please tear off this piece of paper and paste it to the mounting location for drilling holes.

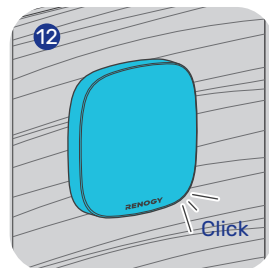
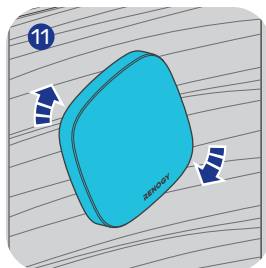
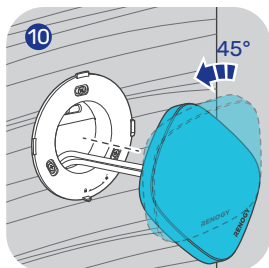
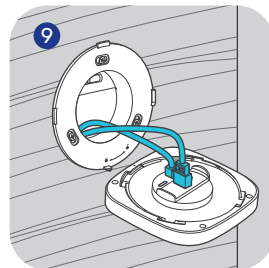
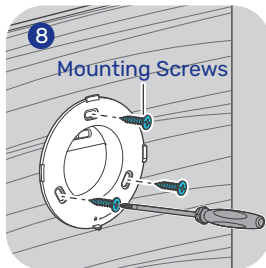
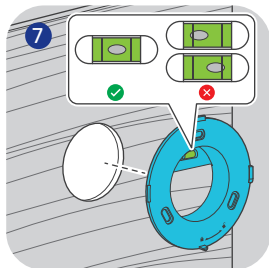
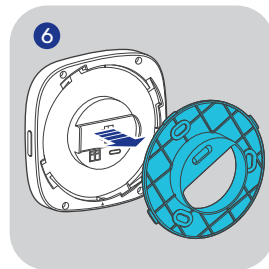
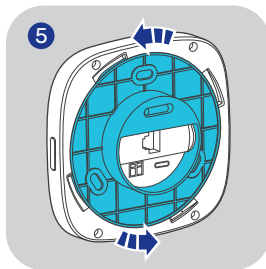
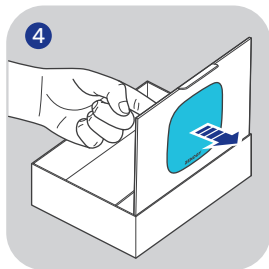


Step 1 (B). Mount Renogy ONE Core on a Wall

i NOTE

- You can also use another piece of paper as the mounting template. The installation hole comes in 2.17 in × 2.17 in (55 mm × 55 mm).

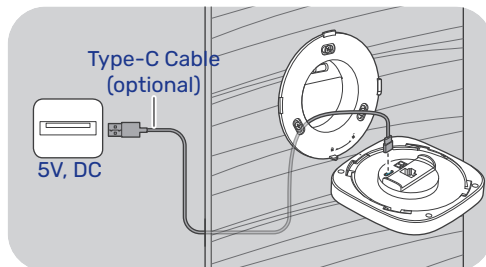
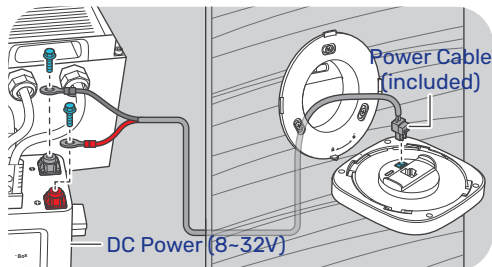




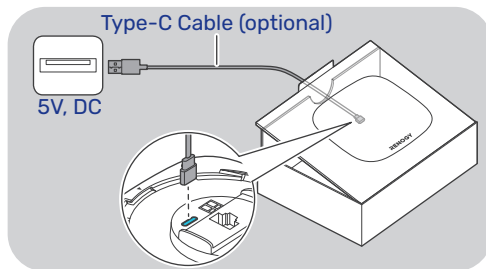
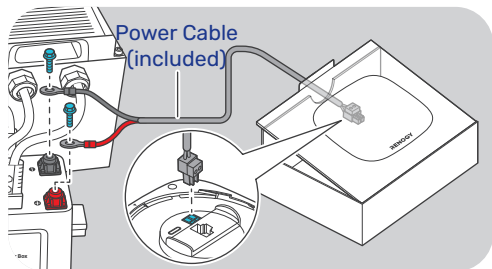
Step 2. Connect Renogy ONE Core to a Power Supply

You can connect Renogy ONE Core to a power supply through the included power cable or a Type-C cable (not included).

■ Installed on a Wall



■ Installed on a Table

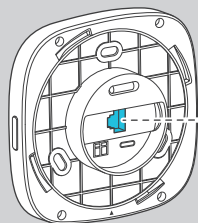


i NOTE

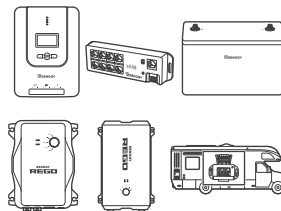
- When installing the power cable, always connect the negative first, and then the positive.

Step 3. Install a Communication Cable (Optional)

For details, see the Renogy ONE Core User Manual by scanning the QR code in the guide.



Communication Cable
(Max length: 19.6 ft / 6 m)



Devices (RS-485 or
CAN for RSHGWSN-W02W-G2)

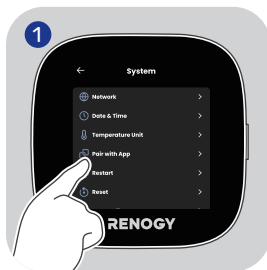
Step 4. Power On/Off

Long press the On/Off Button for 5s to power the Core on or off.



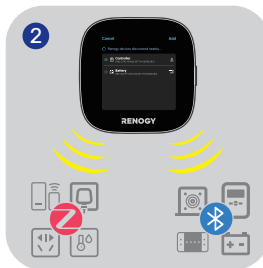
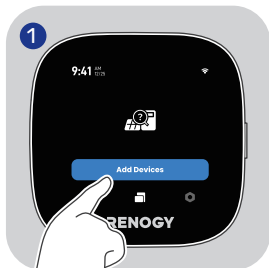
Step 5. Pairing with DC Home

For initial startup, follow the startup wizard on the Core to pair it with the DC Home app. Alternatively, go to **System > Pair with App**.

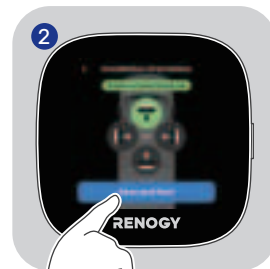


Step 6. Add Devices

Renogy ONE Core can wirelessly connect to Renogy Bluetooth, Bluetooth mesh, and Zigbee devices concurrently.



RV Leveling



i NOTE

- RV leveling calibration on Renogy ONE Core is required each time the installation site for the Core is changed.

Important Safety Instructions

- Keep Renogy ONE Core out of the reach of children.
- Do not dispose of Renogy ONE Core as household waste. Comply with local, state, and federal laws and regulations and use recycling channels as required.
- Do not expose Renogy ONE Core to flammable or harsh chemicals or vapors.
- There are no serviceable parts in Renogy ONE Core. Do not open, dismantle, repair, tamper with, or modify it.
- Confirm the polarities of the devices before connecting Renogy ONE Core to a power supply. A reverse polarity contact can result in damage to the Core, thus voiding the warranty.
- Ensure that the connected DC power supply rates at 8V to 32V. Connecting the Core to a power source beyond the range results in a power-on failure or permanent damage to the Core.
- You can use an extended power cable on demand. For details, see Renogy ONE Core User Manual by scanning the QR code in the guide.

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

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

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 minimum distance 20cm between the radiator & your body.

RSS Standard

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions:

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

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 20cm.

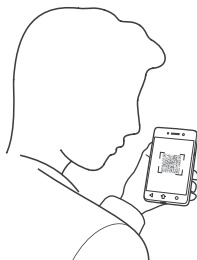
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contentservice@renogy.com



Questionnaire Investigation



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

 | renogy.com/learning-center

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

 | renogy.com/contact-us



1(909)2877111

For technical support outside the U.S., visit the local website below:

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| ca.renogy.com

China



| www.renogy.cn

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| kr.renogy.com

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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 CO₂ from being released into the atmosphere



Save 105 gallons of water from being consumed

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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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Manufacturer: RENOGY New Energy Co.,Ltd
Address: No.66, East Ningbo Road Room 624-625 Taicang German
Overseas Students Pioneer Park JiangSu 215000 CN



eVatmaster Consulting GmbH
Battinastr. 30
60325 Frankfurt am Main, Germany
contact@evatmaster.com

Manufacturer: RENOGY New Energy Co.,Ltd
Address: No.66, East Ningbo Road Room 624-625 Taicang German
Overseas Students Pioneer Park JiangSu 215000 CN



EVATOST CONSULTING LTD
Office 101 32 Threadneedle Street,
London, United Kingdom, EC2R 8AY
contact@evatost.com



FCC ID: 2ANPBGWSN-W03W
IC: 23590-RSHGWSNW03W

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