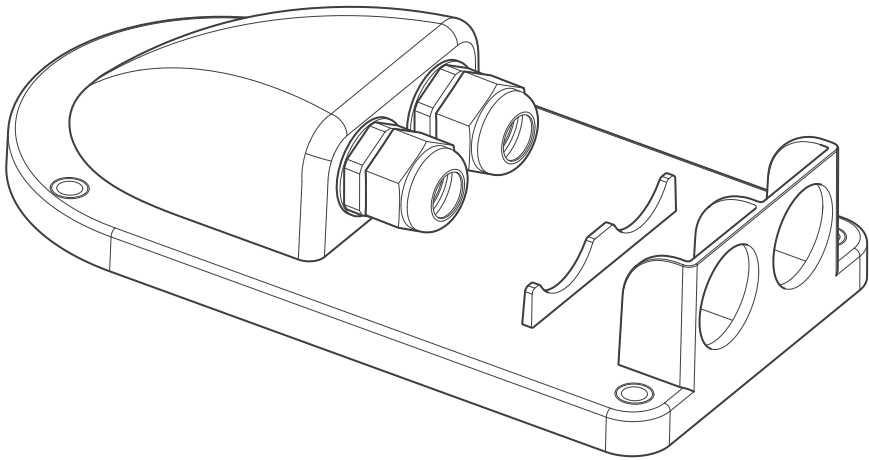


Renogy

Solar Double Cable Entry Gland Box

RMT01CE-G1

VERSION A0
May 27, 2024



USER MANUAL

Before Getting Started

The user manual provides important operation and maintenance instructions for Renogy Solar Double Cable Entry Gland Box (hereinafter referred to as entry gland box).

Read the user manual carefully before operation and save it for future reference. Failure to observe the instructions or precautions in the user manual can result in equipment damage due to loose connections or seals.

- Renogy ensures the accuracy, sufficiency, and the applicability of information in the user manual at the time of printing due to continual product improvements that may occur.
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1. General Information

1.1. Symbols Used

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



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



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



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

1.2. Introduction

The Renogy Solar Double Cable Entry Gland Box is a UV-resistant, waterproof, and ABS plastic membrane designed to provide the solution for cable entry through roofs. With its dual cable entry, the entry gland box easily passes solar cables and can be conveniently mounted on virtually any roofsurface.

1.3. Key Features

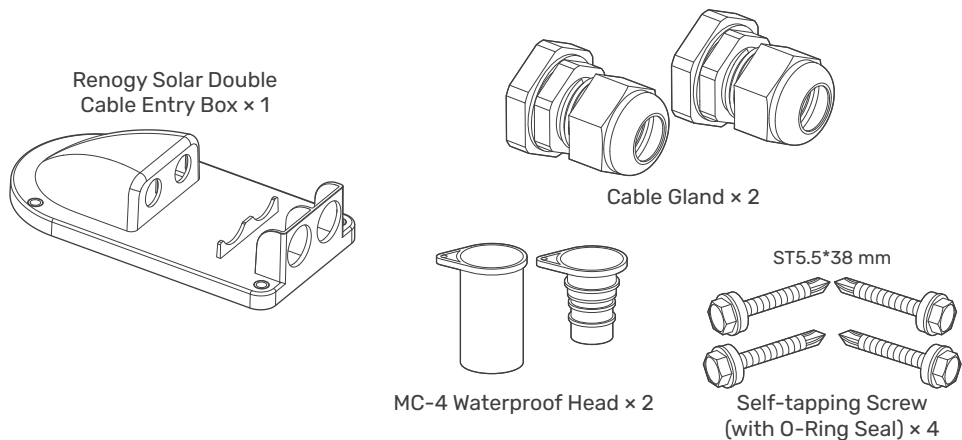
- **Easy Installation**
The Solar Double Cable Entry Gland Box can be installed using a combination of self-tapping screws and adhesives without the need for extra drilling. Self-tapping screws can avoid bonding failures due to vibration, further achieving stability.
- **Durable and Safe Design**
Using 100% recyclable ABS Plastic, it has good UV resistance and water resistance, and can be used in a variety of harsh environmental conditions, such as high temperature, low temperature, dry, and heavy rain.
- **Wide Compatibility**
Designated for virtually any aluminum framed solar panels and is compatible with all Renogy solar panels, accommodating all cable sizing from 10 AWG to 6 AWG (5.26 mm² to 13.3 mm²).
- **Diverse Application Scenarios**
Suitable for RVs, farms, boats, cabins and more.

1.4. SKU

Renogy Solar Double Cable Entry Gland Box	RMT01CE
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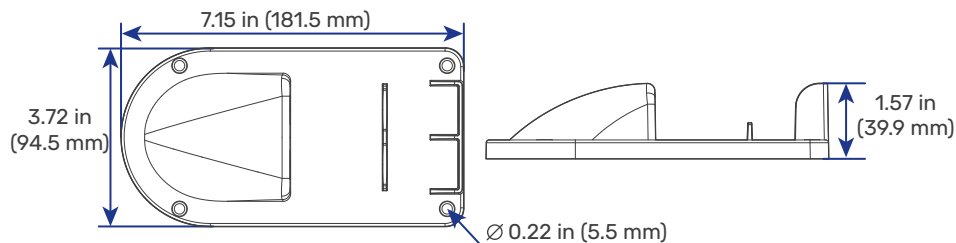
2. Get to Know Renogy Solar Double Cable Entry Gland Box

2.1. What's In the Box?



i Make sure that all accessories are complete and free of any signs of damage.

2.2. Dimensions



i Dimension tolerance: ±0.2 in (0.5 mm)

2.3. Specifications

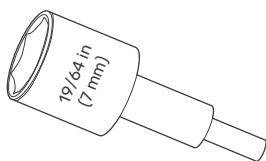
Model / SKU	RMT01CE
Material	UV-resistant ABS Plastic
Dimensions (L x W x H)	7.15 x 3.72 x 1.57 in / 181.5 x 94.5 x 39.9 mm
Recommended Adhesive	Sikaflex-252 or alike
Screw Size	Self-tapping screws (5.5*38 mm)
Cable Gland Diameter Range	10 AWG to 6 AWG / 5.26 mm² to 13.3 mm²

3. Preparation

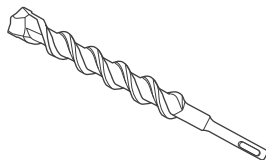
3.1. Required Tools



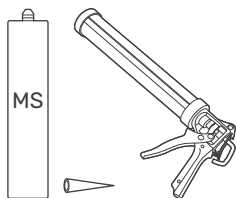
Impact Driver



Socket (19/64 in)



Masonry Drill Bit (31/32 in)



MS Adhesive and MS Applicator Gun

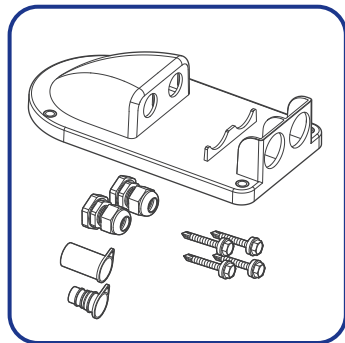


Cleaning Rag



Prior to installing the entry gland box, prepare the recommended tools.

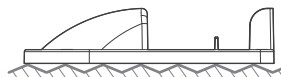
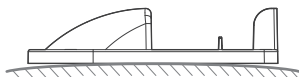
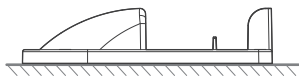
3.2. Check the Renogy Solar Double Cable Entry Gland Box



Inspect the entry gland box and all included accessories for any visible damage including cracks, dents, deformation, and other visible abnormalities, do not use the entry gland box if there is any visible damage.

3.3. Plan a Mounting Site

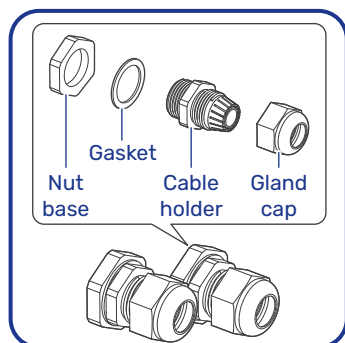
To ensure proper sealing and waterproof performance, install the entry gland box on a flat surface with no other cables underneath.



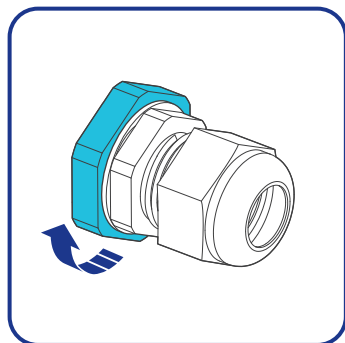
4. Installation

To ensure proper sealing and waterproof performance, always follow the installation instructions in the sequence described in this manual.

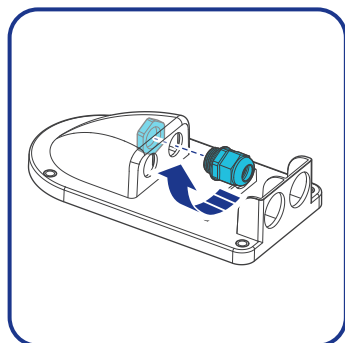
4.1. Install Cable Glands



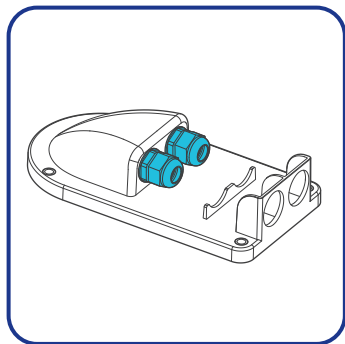
1. Install the included cable glands in a sequence as listed in the left illustration. A cable gland comprises a nut base, a gasket, a cable holder, and a gland cap.



2. Remove a nut base from a cable gland by rotating it clockwise.

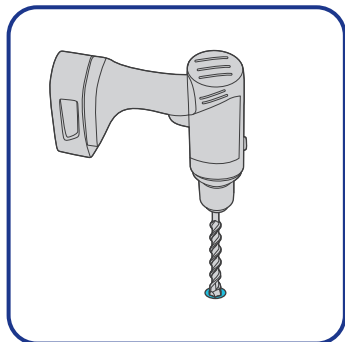


3. Place the nut base inside the gland box as shown in the illustration. Run the rest of the cable gland through the grommet into the nut base. Rotate the gland cap clockwise to secure the gland to the box.



4. Repeat Steps 2 to 3 on the other gland, and ensure both glands are firmly secured.

4.2. Drill a Cable Grommet

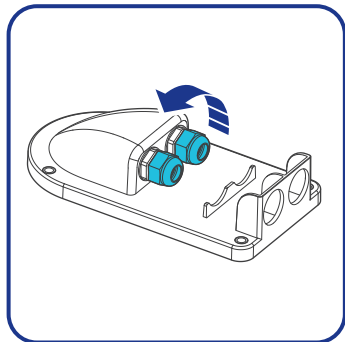


In this manual, we drill one grommet for both cables using an impact driver with a 31/32 in Masonry drill bit. You can drill two grommets in accordance with the specific cable size in actual applications.



The grommet should be large enough to accommodate MC-4 connectors.

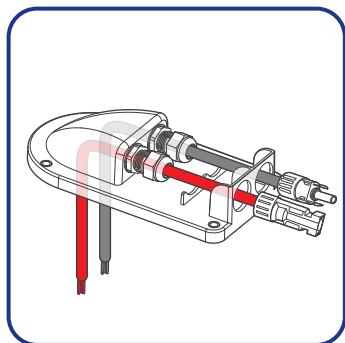
4.3. Install MC-4 Adapter Cables



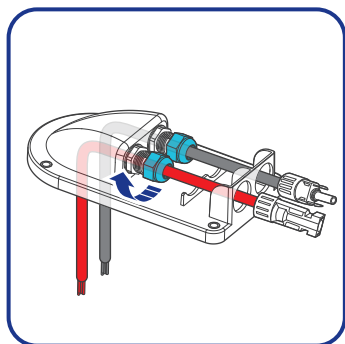
1. Loosen the gland caps by rotating them counterclockwise.



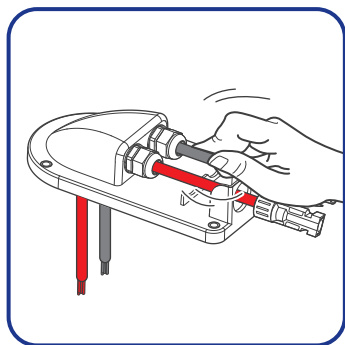
You can remove the gland caps from the gland to facilitate cable installation.



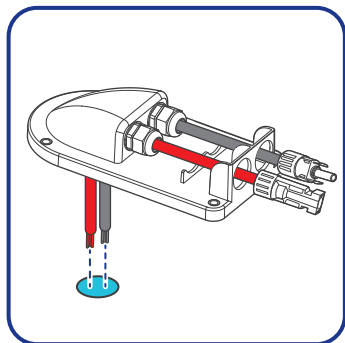
2. Run the bare ends of MC-4 adapter cables through the front grommets and cable glands.



3. Rotate the gland caps clockwise to secure the MC-4 adapter cables.



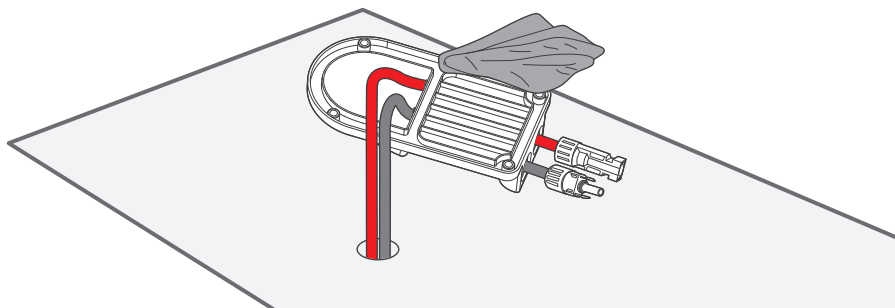
4. Ensure both MC-4 adapter cables are firmly secured.



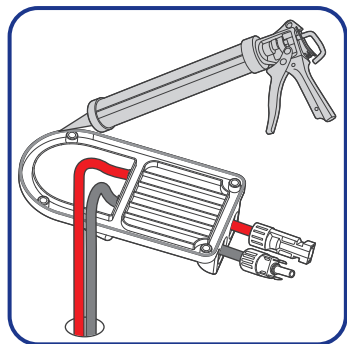
5. Run bare ends of both MC-4 adapter cables through the cable grommet on your installation site.

4.4. Clean the Installation Site and Entry Gland Box

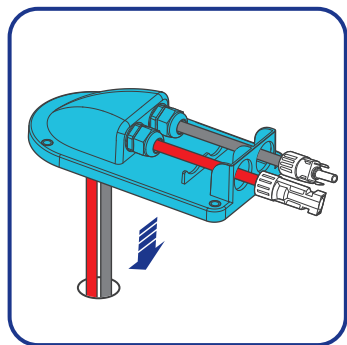
Wipe the bottom of the entry gland box and the surface of the installation site with a cleaning rag to ensure they are clean and dry; otherwise, it will affect the sealing performance. If necessary, roughen the surface of the installation site for better sealing.



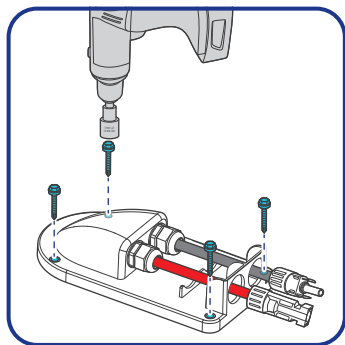
4.5. Mount the Entry Gland Box



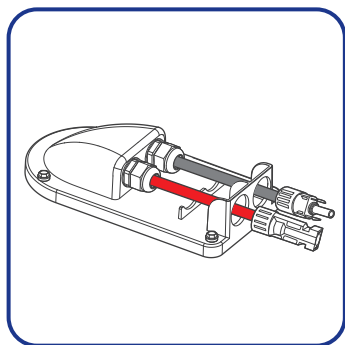
1. Apply adhesive to the bottom of the gland box where it will make contact with the flat mounting surface.



2. Attach the gland box to the mounting surface vertically to ensure they are in close contact.



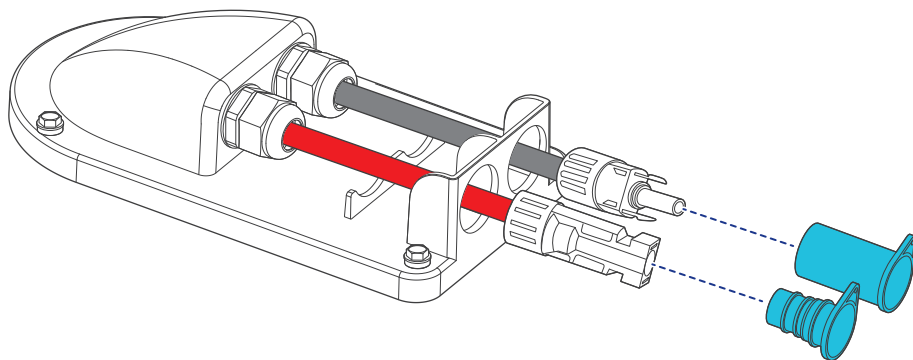
3. Hold the entry gland box in place to prevent it from moving during installation. Secure the gland box by driving the four included self-tapping screws through the mounting holes by using an impact driver and a 19/64 in. socket.



4. Let the gland box sit until the MS adhesive is fully dry.

5. How to Install the MC-4 Waterproof Heads?

For solar panels that will not be used for a period of time, we recommend that you should install the included waterproof heads on the MC-4 connectors to prevent them against rain or oxidization.

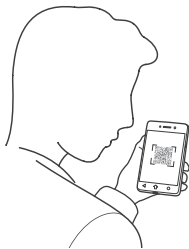


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Save 300 pounds of CO₂ from being released into the atmosphere



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