RENOGY
TRUSTED ENERGY SOLUTIONS

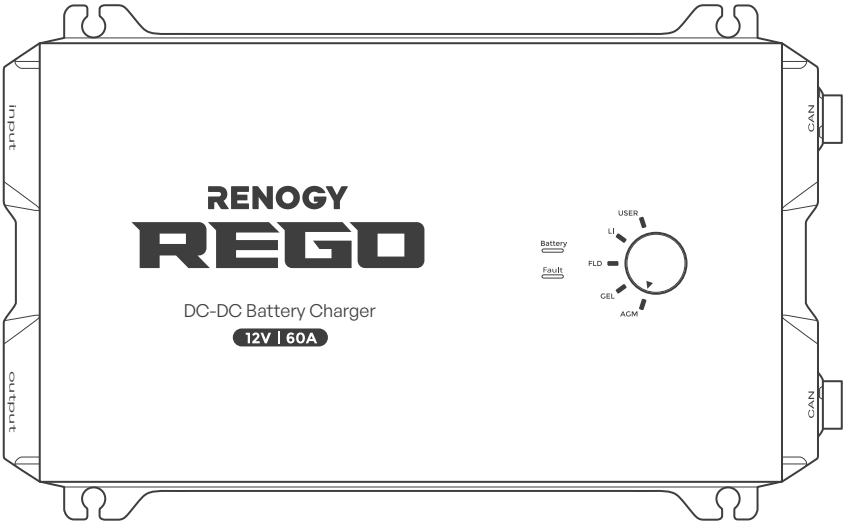
RENOGY REGO

DC-DC Battery Charger

12V | 60A

RBC1260DO-12B

VERSION A3
January 25, 2026



QUICK GUIDE

RENOGY

TRUSTED **ENERGY** SOLUTIONS

This Quick Guide contains important installation, operation, and maintenance instructions for REGO 12V 60A DC-DC Battery Charger, hereinafter referred to as "Battery Charger". Please read the Quick Guide carefully before using the device.

For additional support, contact our customer service through renogy.com/contact-us/.

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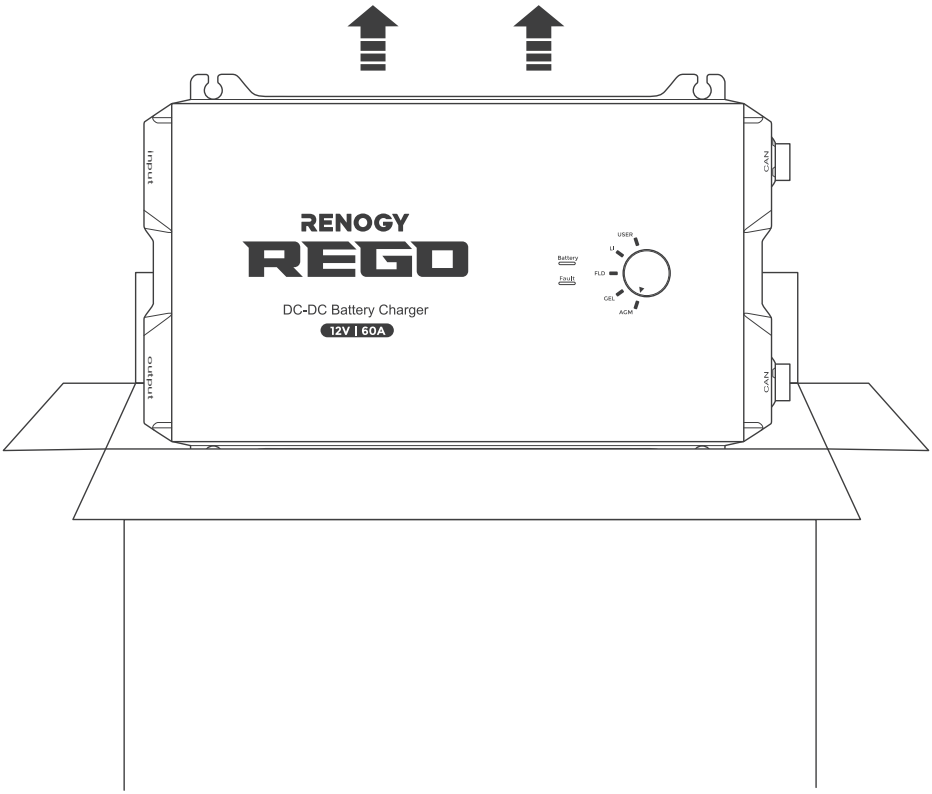
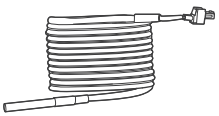
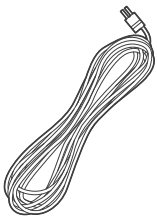
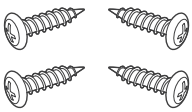
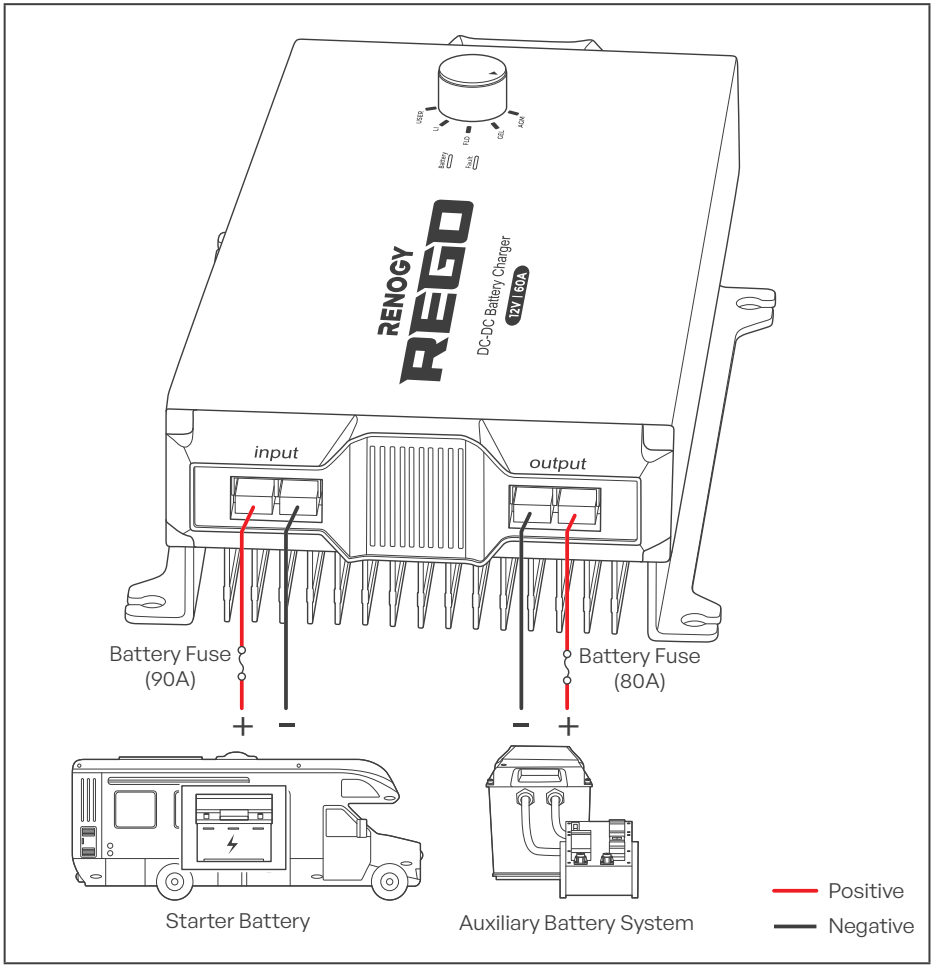
Package Contents

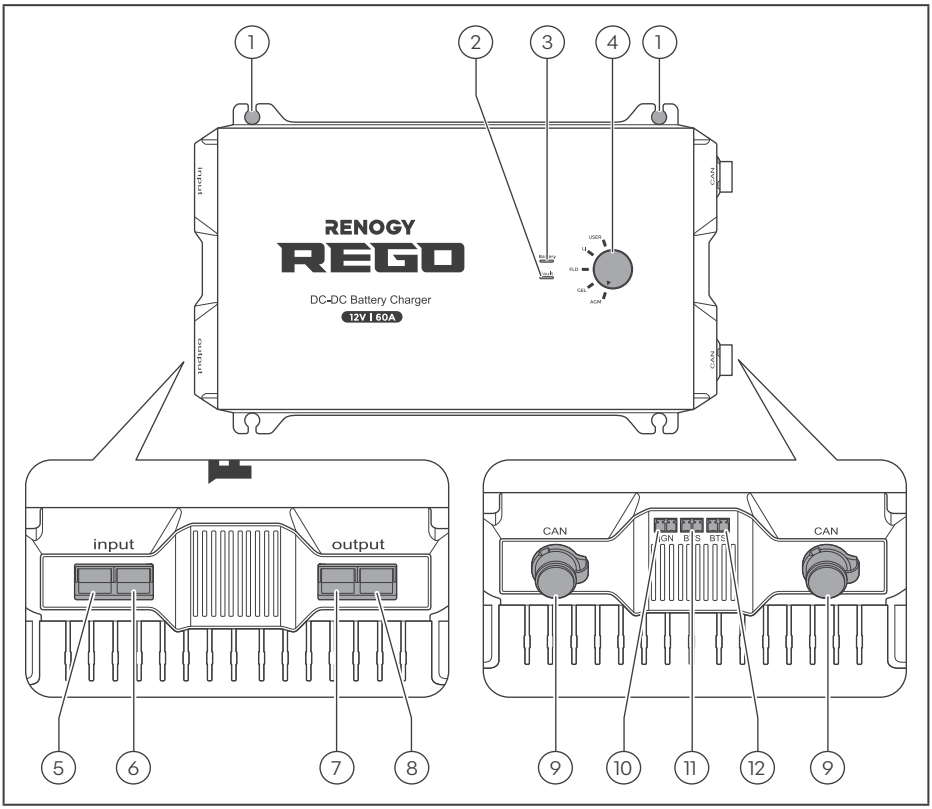


Quick Guide × 1	Renogy Temperature Sensor × 1 (Model: RTSCC)	IGN Signal Wire × 1	Screws × 4
			ST6.3x1.8x13mm 

Wiring Diagram



Product Overview



No.	Part	No.	Part
1	Mounting Holes	7	Negative Output
2	Fault Status Indicator	8	Positive Output
3	Battery Status Indicator	9	CAN Communication Ports
4	Battery Type Setting Knob	10	IGN Signal Wire Port
5	Positive Input	11	Battery Voltage Sensor (BVS) Port
6	Negative Input	12	Battery Temperature Sensor (BTS) Port

⚠

- Inspect the battery charger for any visible damage including cracks, dents, deformation, and other visible abnormalities before installation.
- All connector contacts shall be dry, clean, and free of any dirt and corrosion.DO NOT touch the exposed electrolyte or powder if the batteries inside the battery charger are damaged.
- Please wear proper protective equipment and use insulated tools during installation and operation.

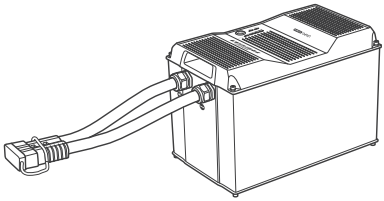
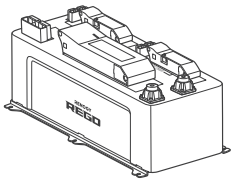
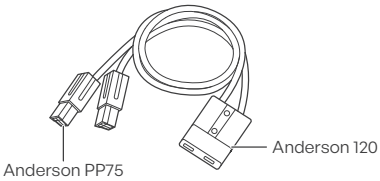
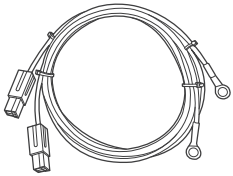
Preparation

Components & Tools

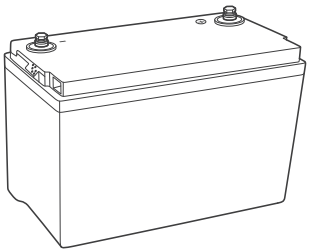
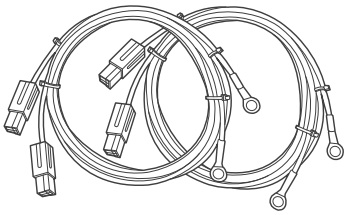
The adapter cable used in this quick guide can be made by yourself or purchased from renogy.com according to the names in "Recommended Components".

Recommended Components

- Battery Scenario A: REGO Battery Kit

REGO 12V 400Ah Lithium Iron Phosphate Battery	REGO 4 Ports 400A System Combiner Box
	
Battery Adapter Cable (output) (Anderson PP75 to Anderson 120 Adapter Cable)	**Battery Adapter Cables (input) (Anderson PP75 to Ring Terminal Adapter Cable)**
	

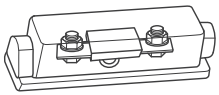
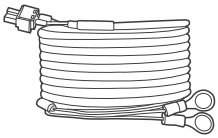
- Battery Scenario B: Normal Battery Kit

Normal Battery with +/- Bolts	Battery Adapter Cables (input / output) (Anderson PP75 to Ring Terminal Adapter Cable)
	

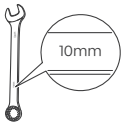
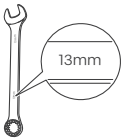
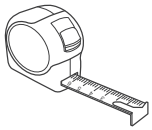
Preparation

Components & Tools | Mounting Location

Optional Accessories

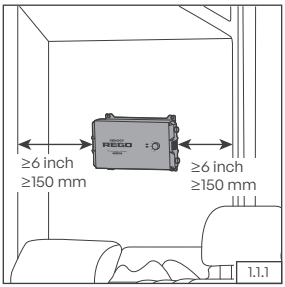
Battery Fuse (80A and 90A)	Fuse Cable	Battery Voltage Sensor (Model: RVSCC)
		

Required Tools

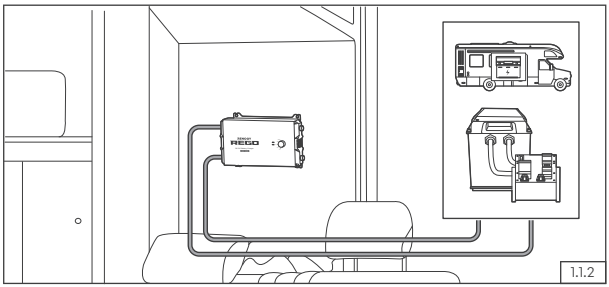
Wrench (10mm)	Wrench (13mm)	Measuring Tape	Insulation Tape
			

Mounting Location

- Risk of explosion! Never install the battery charger in a sealed enclosure with flooded batteries! Do not install it in a confined area where battery gases can accumulate.
- Install the battery charger on a vertical surface protected from direct sunlight, high temperatures, and water. Make sure there is good ventilation.
- The battery charger requires at least 6 inches (150mm) of clearance above and below for proper air flow.
- Do not install the battery charger near flammable fumes or gases.
- Make sure that the battery charger is installed in an environment with relative humidity between 0% and 95% and no condensation.
- If the Battery Adapter Cable or Solar Panel Extension Cable is not long enough, you can use more extension cables or reselect the position where the battery charger needs to be secured.



Confirm the installation location.

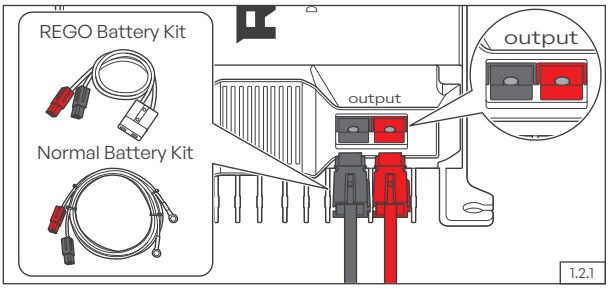


Measure the length of the Battery Adapter Cable to make sure it can be connected to the battery charger.

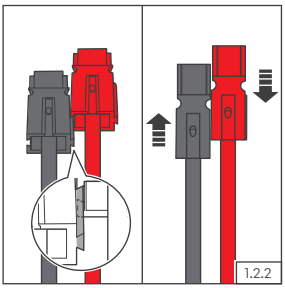
Installation

Battery Charger Wiring

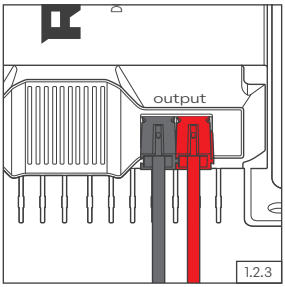
- Refer to the user manual of the battery charger at renogy.com for the recommended wire gauge and length.
- Make sure that the connections of the Anderson connectors are tight and secure.



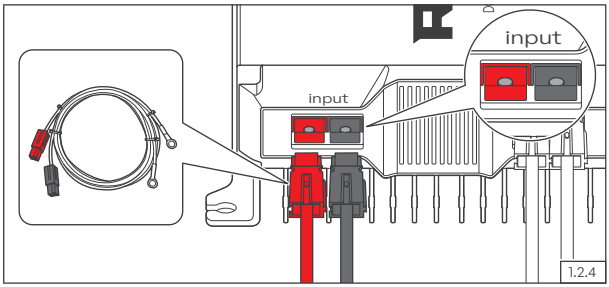
For the Output terminal, align the Anderson PP75 connectors of Battery Adapter Cable to the correct orientation and polarity.



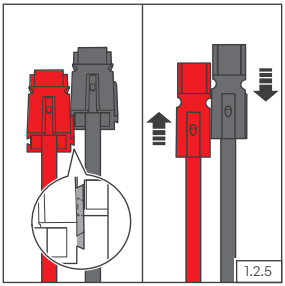
Bind the Anderson PP75 connectors by sliding the side grooves.



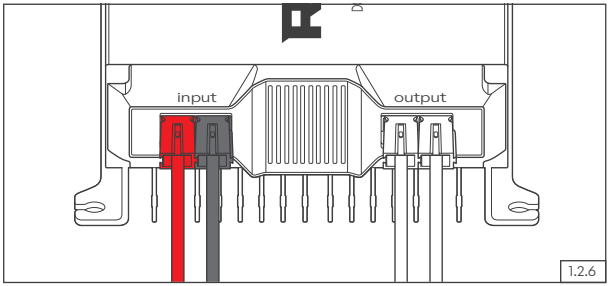
Insert the Anderson PP75 connectors into the Output terminal.



For the Input terminal, align the Anderson PP75 connectors of Battery Adapter Cable to the correct orientation and polarity.



Bind the Anderson PP75 connectors by sliding the side grooves.



Insert the Anderson PP75 connectors into the Input terminal.

Auxiliary Battery Wiring

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- Read the user manual of the auxiliary battery carefully before installation.
- Identify the polarities (positive and negative) on the cables used for the batteries. A reverse polarity contact may damage the unit.
- Select a suitable wrench or other tool when tightening the battery bolts to their rated specification.
- Ensure that the Anderson connectors are fully seated and/or the ring terminals are securely connected.
- Do not touch the positive and negative terminals of the battery directly with your hands at the same time.
- Do not allow the positive (+) and negative (-) terminals of the battery to contact with each other.

Battery Scenario A: REGO Battery Kit

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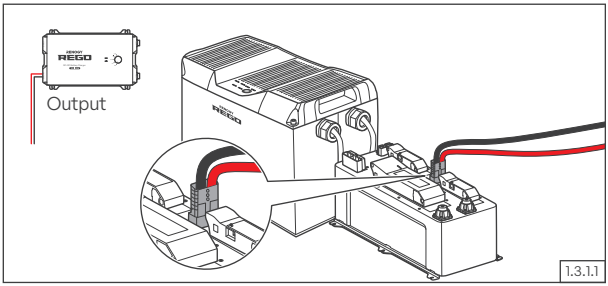
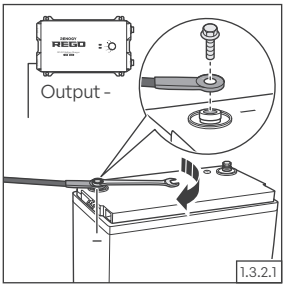
- Read the user manual of REGO 4 Ports 400A System Combiner Box carefully before wiring.
- If the devices are connected to the Anderson connectors of the System Combiner Box, install a 80A NH fuse in the top NH fuse disconnect switch.
- If the Anderson PP75 to Ring Terminal Adapter Cable is used to connect with the System Combiner Box, refer to the user manual of REGO 12V 60A DC-DC Battery Charger at renogy.com for more detailed instructions.
- If positive/negative busbars are used to connect with the normal auxiliary battery, refer to the user manual of REGO 12V 60A DC-DC Battery Charger at renogy.com for more detailed instructions.

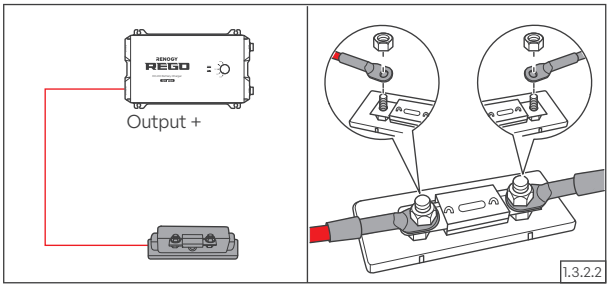


Insert the Anderson 120 connector of the Battery Adapter Cable (output) to the System Combiner Box.

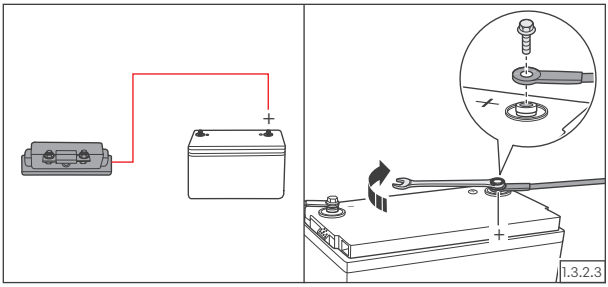
Battery Scenario B: Normal Battery Kit



Attach the ring terminal of the negative Battery Adapter Cable (output) to the negative batteryterminal of Normal Battery. Tighten the wire retaining bolt clockwise with a wrench.

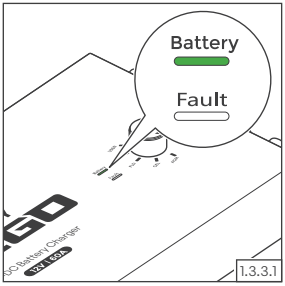


For your safety, it is recommended to use a battery fuse (80A). Connect the positive Battery Adapter Cable (output) to one end of the battery fuse. Install the fuse cable on the other end of the fuse.



The other ring terminal of the fuse cable is connected to the positive terminal of the Normal Battery. Tighten the wire retaining bolt clockwise with a wrench.

Battery Indicator



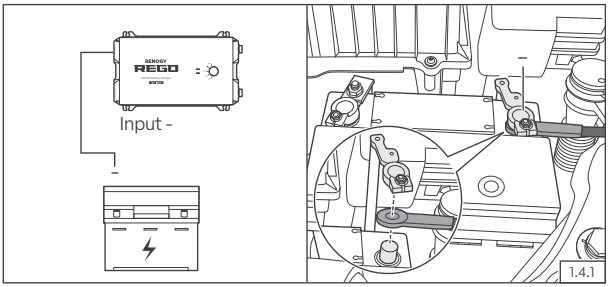
Once the battery wiring is completed correctly and the battery is turned on, the Battery indicator of the battery charger lights up green.

When the battery is performing normally, the Battery indicator may not light up. This means the battery charger needs troubleshooting. For details, contact our customer service through renogy.com/contact-us/.

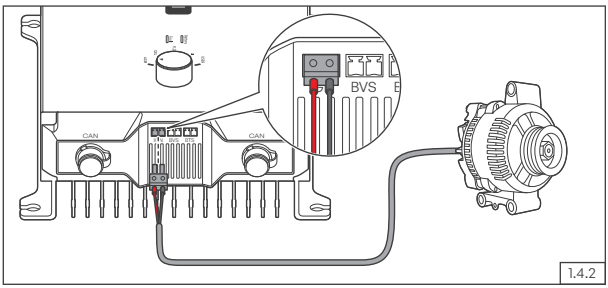
Input Wiring

⚠

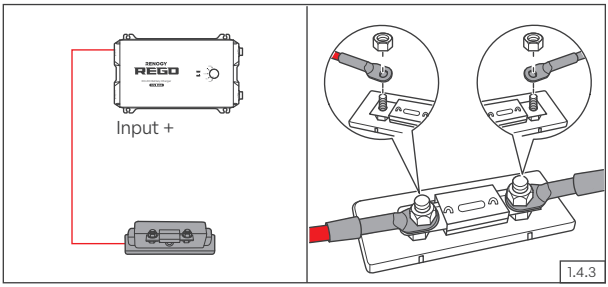
- Check the user manual of the vehicle to identify the alternator type before connecting. If you cannot identify the alternator type, refer to the user manual of battery charger at renogy.com for more detailed instructions.
- The starting voltage of the battery charger input terminal depends on the alternator type. If it is a smart alternator, the starting voltage should be greater than 12.5V; if it is a traditional alternator, the starting voltage should be greater than 13.5V.
- Identify the polarities (positive and negative) on the cables used for the batteries. A reverse polarity contact may damage the unit.
- Select the appropriate wrench according to the battery positive/negative wire fixing bolt specifications.
- Ensure that the ring terminals are securely connected.



Attach the ring terminal of the negative Battery Adapter Cable (input) to the negative bolt of the starter battery.

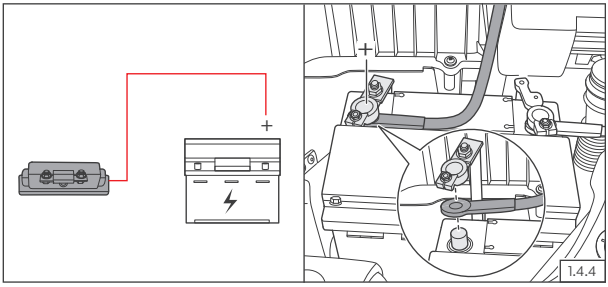


The traditional alternator does not need to be connected to the IGN Signal Wire. If the DC alternator of the vehicle is a smart alternator, insert the IGN Signal Wire connector into IGN signal wire port, and then connect the other end to the ignition signal port of the smart alternator.

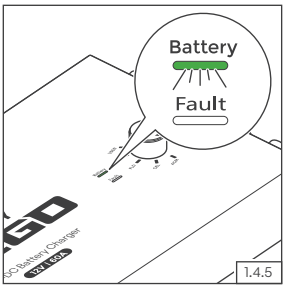


For your safety, it is recommended to use a battery fuse (90A). Connect the positive Battery Adapter Cable (input) to one end of the battery fuse. Install the fuse cable on the other end of the fuse.

Installation



Attach the other ring terminal of fuse cable to the positive terminal of the starter battery.



If the starter battery voltage reaches the working condition of the battery charger, after waiting for 15s, the battery indicator flashes green and the battery charger starts to work.

If the Battery indicator does not flash, it means that the battery charger needs troubleshooting. For more technical instructions, contact our customer service through renogy.com/contact-us/.

If the starter battery voltage does not meet the working requirements of the battery charger, the battery charger will not work and the Battery indicator will not flash.

Mounting

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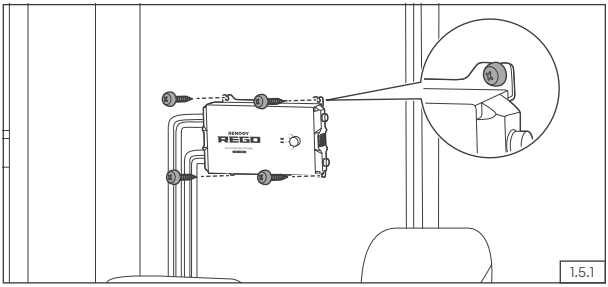
- Make sure that the battery charger is installed firmly to prevent it from falling off.



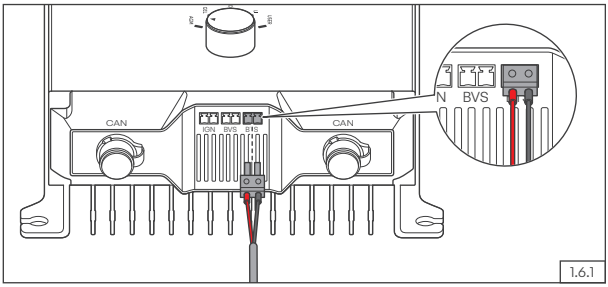
Place the battery charger against a flat surface and secure it with included screws.

Temperature Sensor

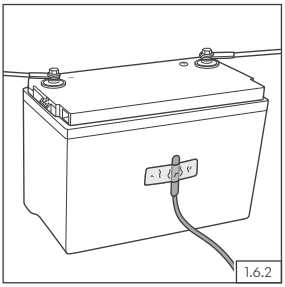
The temperature sensor measures the temperature of the battery and provides the battery charger with a charge voltage calibration mechanism to ensure that the battery charger can properly charge the battery within the operating temperature from -4°F to 140°F or -20°C to 60°C.

⚠

- Do not use the temperature sensor on a LiFePO4 (LFP) battery which comes with a Battery Management System (BMS).



Insert the temperature sensor terminal block into the BTS port of the battery charger.



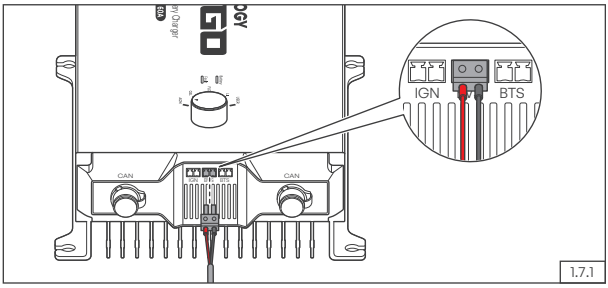
Adhere the sensor on the battery with insulation tape.

Voltage Sensor (Optional)

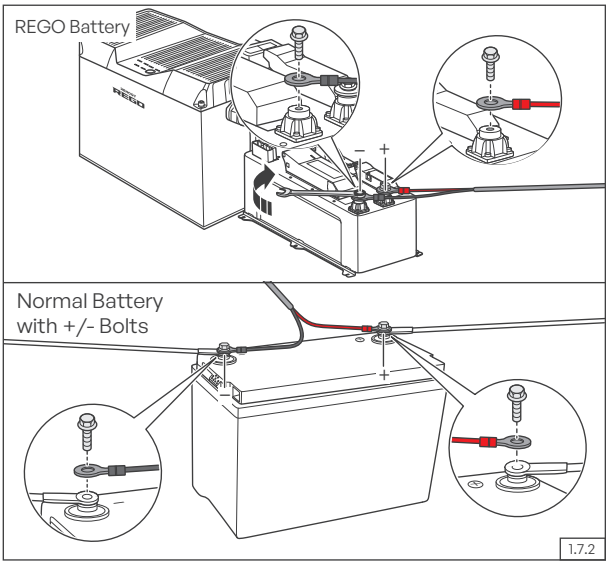
The Battery Voltage Sensor is the perfect solution by providing an accurate battery voltage to the battery charger and allowing it to adjust the charging stage precisely resulting in overall extension of your battery life.

⚠

- Identify the polarities (positive and negative) on the cables used for the batteries. A reverse polarity contact may damage the unit.
- The voltage sensor ring terminal is M8 (Approx. 5/16"). If the battery bolt size is small, use a gasket to fix it to prevent it from falling off.



Insert the voltage sensor terminal block to the BVS port.

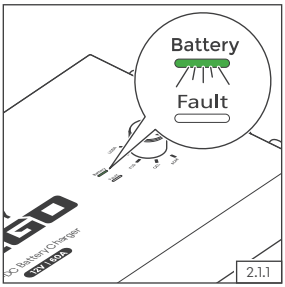


Connect the voltage sensor ring terminal to the positive/ negative pole of the battery system.

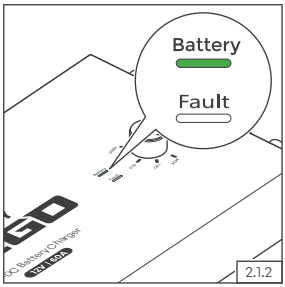
LED Indicators

Battery Status Indicator | Fault Status Indicator

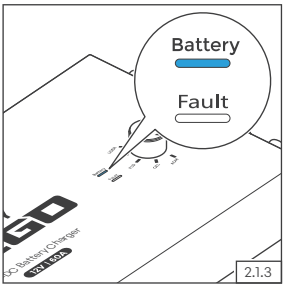
Battery Status Indicator



Indicator status: Flash green
Operational status: The battery charger is charging the auxiliary battery.

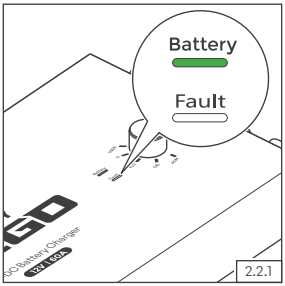


Indicator status: Solid green
Operational status: The auxiliary battery is fully charged, and the battery charger stops working.

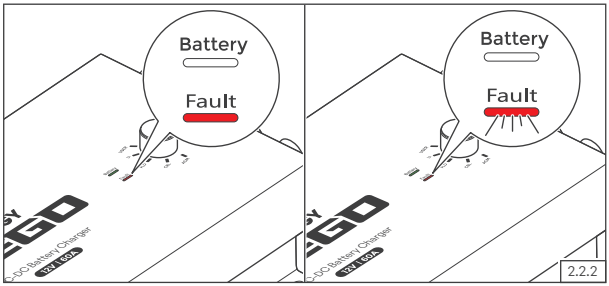


Indicator status: Solid blue
Operational status: The battery charger is charging the starter battery from the auxiliary battery.

Fault Status Indicator



Under normal conditions, the Fault indicator does not light up.



If the Fault indicator lights up, refer to the user manual of the battery charger at renogy.com for troubleshooting instructions.

Communication

REGO 12V 60A DC-DC Battery Charger can communicate with other REGO devices and monitoring devices, enabling safe operation, smart control, remote monitoring, and programmable settings.

Inter-Device Communication

Depending on the installation condition, the RV-C communication connections between the battery charger and other REGO devices can be established with backbone or daisy chain topology. The inter-device communication allows the battery charger to dynamically adjust the charging profile for an optimal and safe charge.

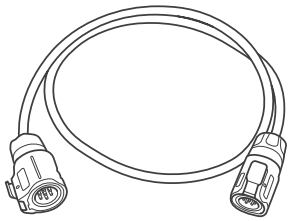
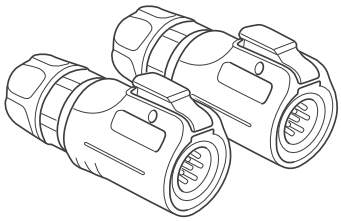
Backbone Topology

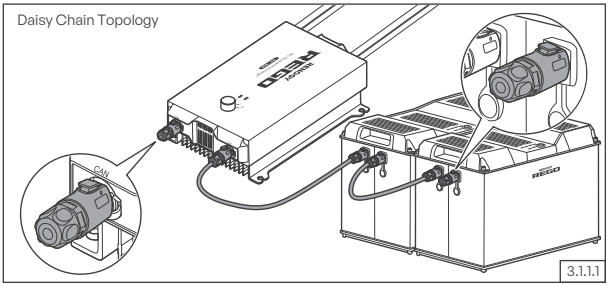
If an RV-C bus is pre-installed in the RV, check the network wiring diagram provided by the RV manufacturer and follow the backbone topology for the RV-C communication connections. Refer to the user manual of the battery charger at renogy.com for more details.

Daisy Chain Topology

If the RV-C bus is not available, follow the daisy chain topology for the communication connections.

Recommended Accessories

LP16 Plug (7-Pin) Communication Cable(s)	LP16 Terminator Plug (7-Pin)
	



Connect REGO devices in series through either of the CAN Communication Ports with the Communication Cable(s) (sold separately).

Plug the Termionator Plugs (sold separately) into the vacant CAN Communication Ports on the first and last REGO devices.

Monitoring Device Communication

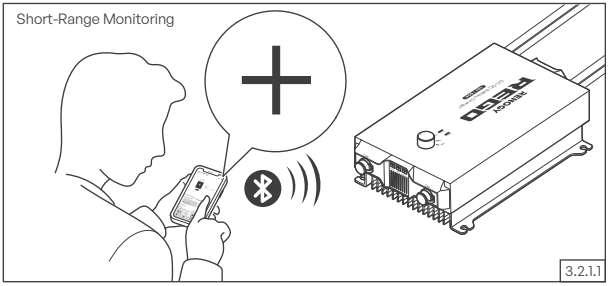
You can establish either short-range or long-range communications between the battery charger and monitoring devices according to your demands. The monitoring device allows for the monitoring and programming of the battery charger or even the complete system.

⚠

- Scan the QR code on the last page of the quick guide to download the Renogy app.
- Make sure that the battery charger is turned on before the connection.

Short-Range Monitoring

If only short-range monitoring is required, connect the battery charger to the Renogy app directly through Bluetooth.



Open the Renogy app. Tap + to search for new devices. Add the newly found battery charger to the device list. Monitor the battery charger on the device page.

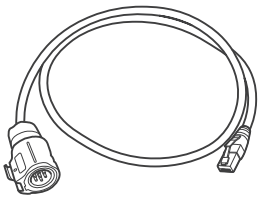
Long-Range Monitoring

If long-range communication and programming are required, connect the battery charger to Renogy ONE Core through Bluetooth or wires, and the Renogy ONE Core to the Renogy app through Wi-Fi.

⚠

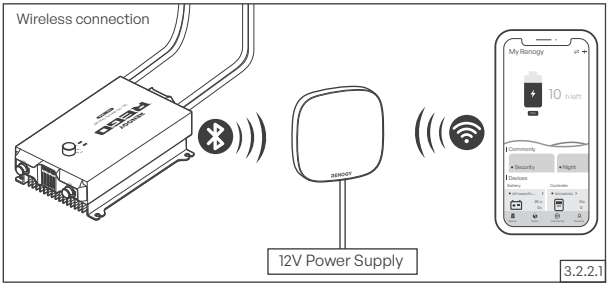
- Make sure that the Renogy ONE Core is powered on before the connection.
- Read the user manual of Renogy ONE Core at renogy.com before the connection.

Recommended Accessories

Renogy ONE Core	LP16 Plug (7-Pin) to RJ45 Communication Adapter Cable
	

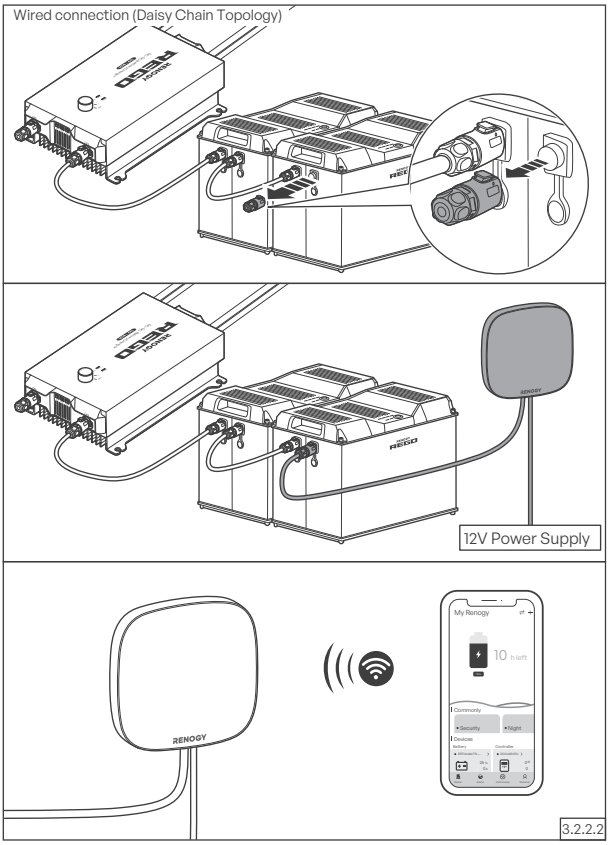
Communication

Inter-Device Communication | **Monitoring Device Communication**



If the inter-device communication is not established, connect the battery charger to the Renogy ONE Core (sold separately) through Bluetooth, and pair the Renogy ONE Core with the Renogy app through Wi-Fi.

Monitor the battery charger on the Renogy ONE Core or the Renogy app.



For devices connected in a backbone topology, connect the Renogy ONE Core to the RV-C bus. Contact the RV manufacturer for more details before the connection.

For devices connected in a daisy chain topology, remove the Terminator Plug from the REGO device at either end of the daisy chain, and connect Renogy ONE Core to the vacant CAN Port on the REGO device with a Communication Adapter Cable (sold separately).

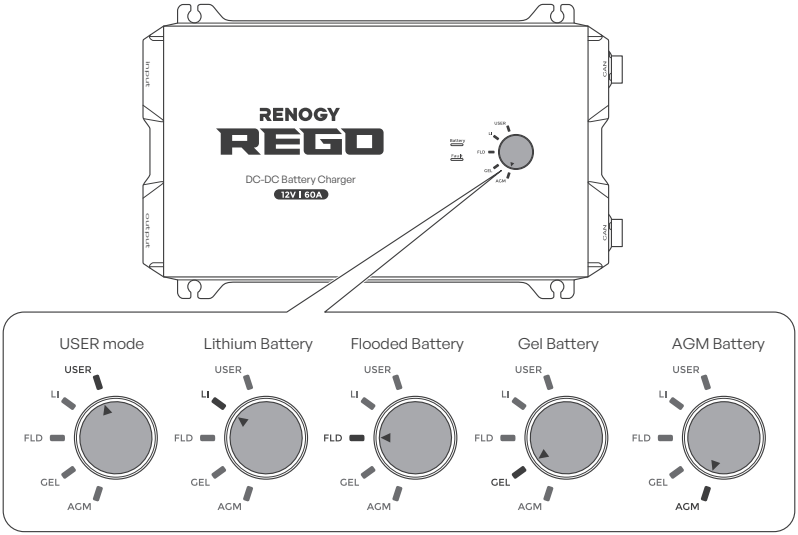
Pair Renogy ONE Core with the Renogy app. Monitor and program the complete system on the Renogy ONE Core or the Renogy app.

Operation & Maintenance

Operation

The battery charger is simple and easy to use. The knob with five gears makes the selection of battery type more convenient.

The default battery type of the battery charger is AGM/SLD. After the wiring of the battery charger output is completed, manually set the battery type according to needs.



User Mode requires the addition of the Renogy Renogy app customize charge parameters.

Scan the QR Code on the last page of the Quick Guide to download the app.

Maintenance

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

- Ensure the battery charger is mounted in a clean, dry, and ventilated area.
- Ensure there is no damage or wear on the cables.
- Ensure the firmness of the Anderson connectors and check if there are any loose, damaged or burnt connections.
- Make sure that the Battery indicator and Fault indicator are in normal state.
- Ensure there is no corrosion, insulation damage, or discoloration marks of overheating or burning.

⚠

- Risk of electric shock! Make sure that all power is turned off before touching the terminals on the battery charger.
- In some applications, corrosion may exist around the contacts inside the Anderson connector. Corrosion can loosen springs and increase resistance, leading to premature connection failure. Apply dielectric grease to each connector contact periodically. Dielectric grease repels moisture and protects the connector contacts from corrosion.
- For details, refer to the user manual of the battery charger at renogy.com .

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:

(1) Orient 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.

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.

YouTube @Renogy Solar @renogyofficial @Renogy

Renogy reserves the right to change the contents of this manual without notice.

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