



RENOGY

TRUSTED OFF-GRID SOLUTIONS



RV, CARAVAN, AND CAMPER

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Weingarten



Renogy solutions stand out as the most comprehensive and reliable in the off-grid energy market. Our systems are thoughtfully engineered for user-friendly installation, ensuring a hassle-free setup and significantly shorter installation times.

As the global leader in off-grid power, Renogy continuously pushes the boundaries of innovation, paving the way for a future driven by clean, smart, and sustainable energy. Whether you're embarking on a journey toward energy independence or seeking advanced solutions for off-grid living, Renogy empowers you to achieve your goals with ease and confidence.



About Renogy

Founded in 2010, Renogy has emerged as a global pioneer in off-grid power solutions, revolutionising the industry with its comprehensive, reliable, high-efficiency systems and smart Energy IoT (EIoT) technology. At the cutting edge of innovation, Renogy leads the charge in developing sustainable, intelligent energy systems that empower customers to achieve energy independence anywhere they need power.

With a world-class R&D centre, strong supply chain management, and a commitment to high-quality production, Renogy offers an extensive range of solutions—from off-grid homes and mobile vehicles to marine applications, industrial backup systems, and remote power infrastructure. Renogy's advanced energy systems are designed to maximise efficiency, delivering reliable power while seamlessly integrating with smart monitoring and control systems, making energy management effortless and more sustainable.

Operating in over 30 countries, Renogy is renowned for its groundbreaking technology and commitment to customer excellence. Our global and local support teams provide personalized, around-the-clock assistance, ensuring that clients worldwide can rely on Renogy's solutions.



11

Global R&D, Manufacturing, and Customer Support sites in 5 countries

30+

Number of Countries We Operate In and Service

800+

Global Employees, Over 37% in R&D and Product Innovation

140+

In the Fields of Solar Energy, Energy Storage, Power Supply, and IoT, a Total of 147 Core Inventions and Patents Have Been Obtained

Backup and Off-grid

With over 15 years of expertise, Renogy designs off-grid and backup systems engineered to withstand the harshest environments. Each solution is tailored to meet specific challenges, including load demands, user behaviour, and climate conditions. Renogy's extensive range of solutions addresses off-grid energy needs and can be customised to suit a variety of applications.

Recreational Vehicles

Go off-grid with confidence using Renogy's smart power solutions, expertly designed for all types of RVs. Stay powered and in control, no matter where your journey takes you.



Marine

Whether you're on a fishing trip or an ocean voyage, reliable power is essential. Renogy provides dependable, cutting-edge energy solutions that ensure you stay powered and safe throughout your journey.



Off-grid Homes

Go off-grid with confidence using Renogy's smart power solutions, designed for all types of RVs. Stay powered and in control, wherever your journey takes you.



Industrial Off-grid

The right tools require the right power. Renogy provides tailored off-grid energy solutions for professional vehicles, farms, and remote transmission stations, ensuring reliable power wherever it's needed.





Renogy Product Line

Renogy offers three distinct product lines designed to meet diverse customer needs, from innovative smart functions to exceptional performance and value. Here's a quick guide to help you choose the right solution for your off-grid power requirements:

RENOGY **REGO**

SMART & CONNECTED **ADVANCED TECHNOLOGY FOR OVERALL SYSTEM STABILITY AND SEAMLESS POWER MANAGEMENT**

- Optimal Performance: Precise control over charging and discharging ensures optimal system performance.
- Exceptional Quality: Constructed with high-quality materials and Anderson connectors for safe and easy connections.
- Versatile Compatibility: Compatible with other products using an adaptor cable.
- Best Warranty: Offering the industry's most comprehensive warranty for ultimate peace of mind.

PRO

ENHANCED FUNCTIONALITY **DESIGNED FOR SUPERIOR PERFORMANCE AND ADDITIONAL FEATURES**

- Robust Design: Engineered for demanding applications and environments.
- Proven Reliability: An enhanced product line based on CORE, first launched in 2022.

CORE

VALUE-DRIVEN **COMBINES UNMATCHED QUALITY AND AFFORDABILITY**

- Reliable Performance: Efficient and dependable for all your everyday power needs.
- Extensive Selection: Over 100 models to choose from, ensuring the perfect fit for every requirement.



FULL SOLUTIONS

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RENOGY
REGO

Trusted Off-Grid Energy Solutions

Introducing RENOGY REGO, the cutting-edge off-grid solutions that redefine standards in the 12V off-grid category. Our solutions are meticulously crafted for easy installation and feature advanced safety measures, providing you with continuous peace of mind.

Rugged Design For **Mobile Applications**

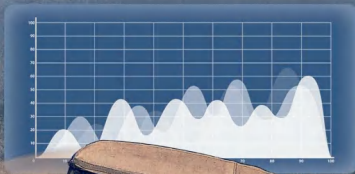
Extensive testing ensures stable performance under harsh vibration conditions



Road Load Tested



Extruded Aluminum Housing



All-in-One Monitor

- Renogy DC Home App
- Renogy ONE Core (4' Touchscreen)
- Renogy ONE Vision (7' Touchscreen)
- Renogy ONE Portal (Laptop)

Experience unrivaled accuracy in energy tracking and management. Take control of your energy efficiency like never before with Renogy.

Integrated Charging Solutions

- Solar charging
- Alternator battery charging (DC Charging)
- Shore power charging (AC Charging)

Our patented Battery Management System (BMS) technology ensures precise control over the charging and discharging processes, guaranteeing optimal battery performance.

International **Certifications**

Ensuring peace of mind in its long-term usage



IEC62619/62620



UN38.3



UL1973



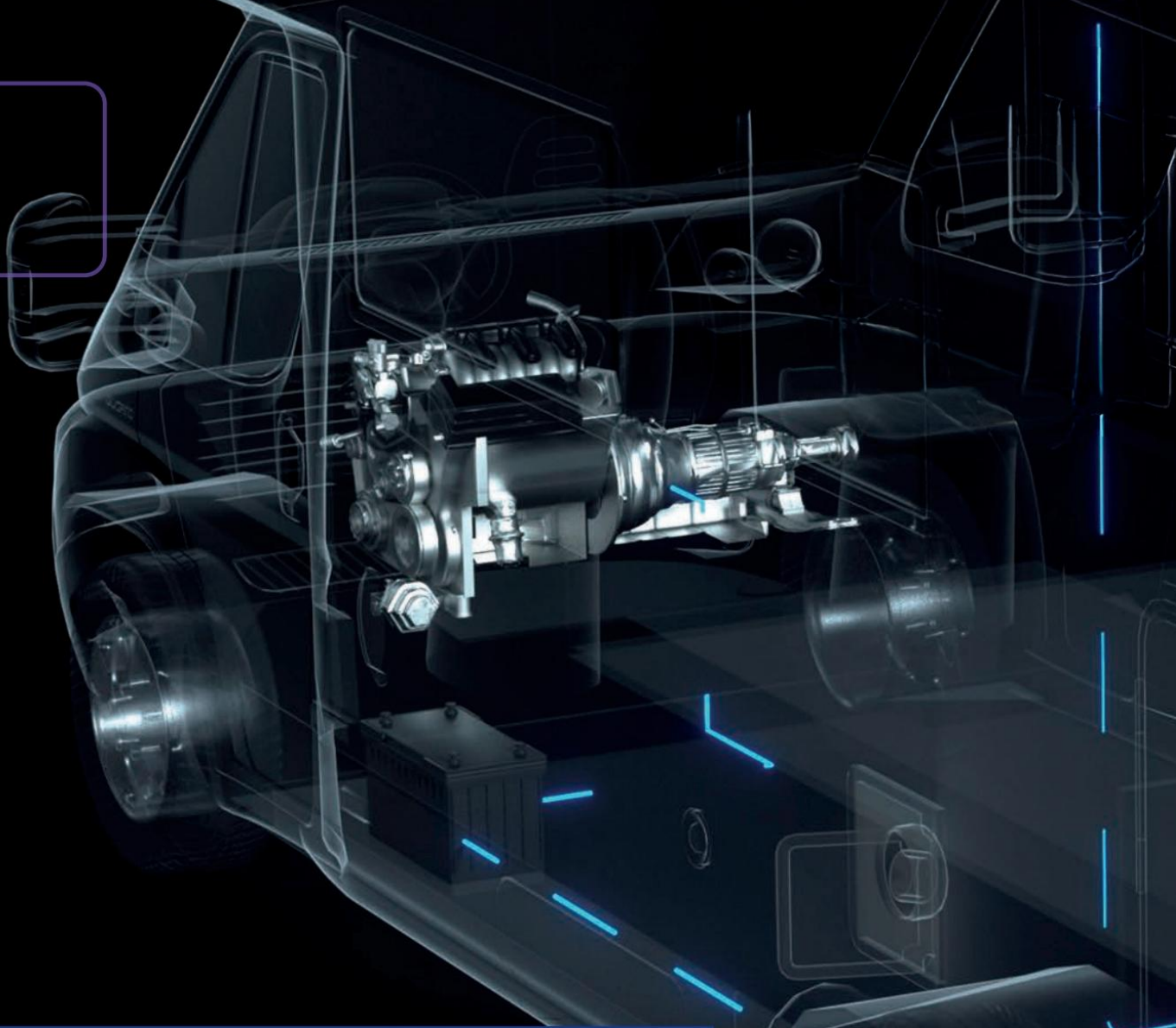
FCC Certification



Global Standards Uncompromising Quality

Renogy products have passed rigorous international quality and safety tests, including standards from the U.S., Europe, Japan, South Korea, Australia, and China.





MPPT CHARGE CONTROLLER - 12V 30A / 60A

- REGO's innovative MPPT technology delivers up to 99% tracking efficiency and 98% peak conversion efficiency.
- Utilises a four-stage charging process (Bulk, Boost, Float, and Equalisation) for enhanced efficiency and prolonged battery lifespan.



DC-DC BATTERY CHARGER - 12V 30A / 60A

- Exclusive Bidirectional Charging
- REGO chargers feature comprehensive protection, including overvoltage, overtemperature, and reverse polarity protection on both inputs and outputs, ensuring safe operation.

Renogy REGO components are fully compatible with Renogy Pro and Core systems, as well as off-grid power systems from other brands.



INVERTER CHARGER - 3000W

- Peak power up to 9000W.
- Ready for Gel, AGM, SLA, FLD, CAL, and Li batteries.
- 4-stage charging, high-efficiency and stability.
- Built-in BT makes it compatible with Renogy ONE M1 & Core.

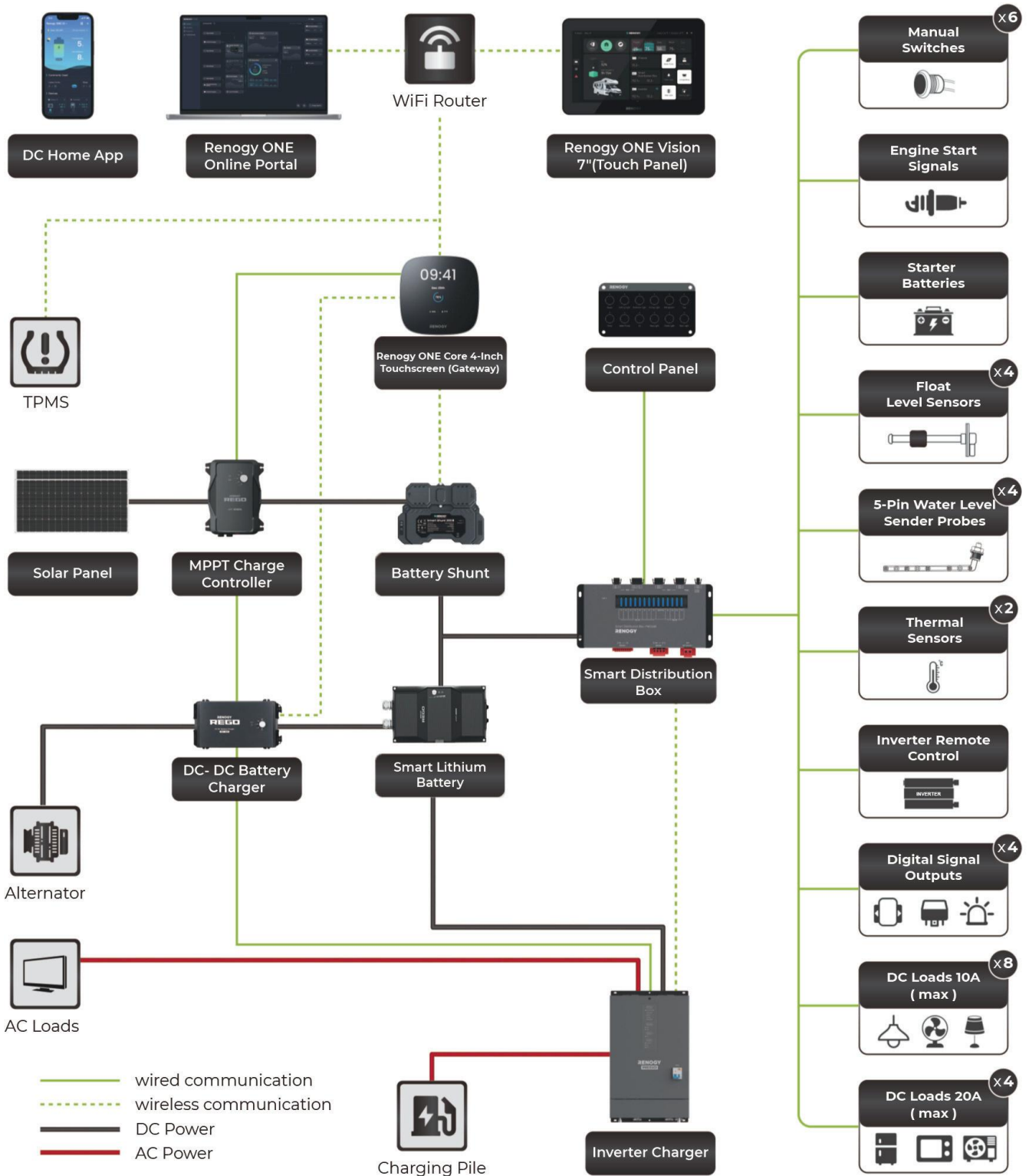


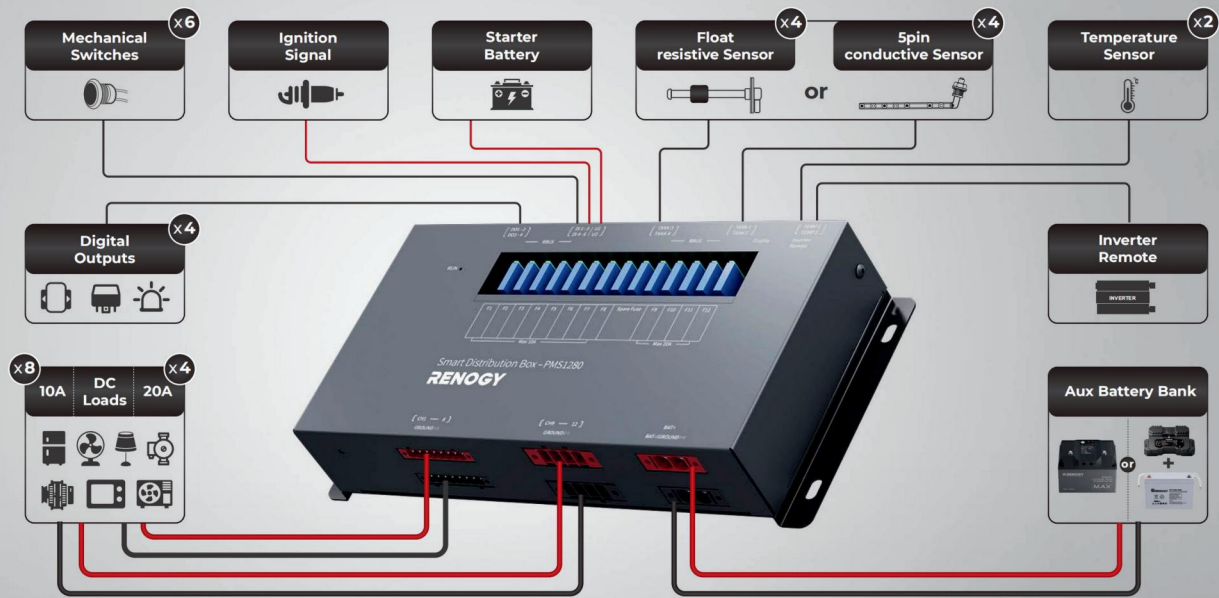
LIFEPO4 BATTERY - 12V 400AH

- Self-heating for safer charging in low temperatures.
- 62 BMS protections for comprehensive safety.
- Vibration-resistant with an aluminium casing.
- 6000 cycles for lasting performance.



Unlock the Future of Energy with EIoT Technology





Experience enhanced control and monitoring with the Smart Distribution Box, bringing advanced functionalities to optimize your RV experience.

Smart Distribution Box (SKU: RSHCB-C02P-G1)

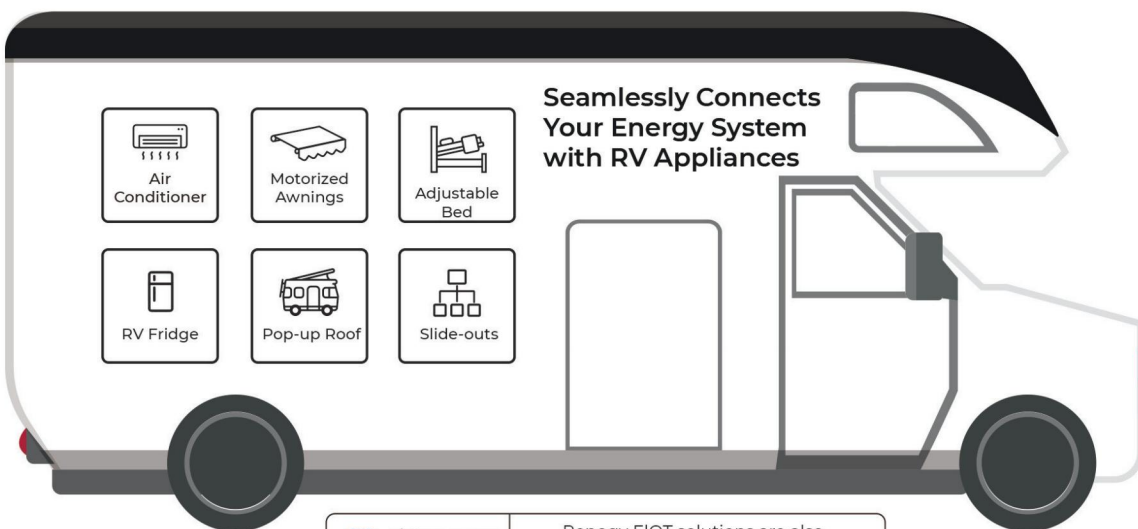
- Specifically designed for all type of RVs.
- Compatibility with RV-C communication interfaces.
- Seamless integration with Renegy ONE Core data display.



Integrated Functions:

- Multi-channel water tank and LPG level collection.
- Temperature collection for climate monitoring.
- Voltage collection for accurate power management.
- AC/DC circuit control for versatile power distribution.

Supports Multiple Communication Protocols



 Renegy EIoT solutions are also compatible with Victron products



What Sets REGO Apart from Other LFP Batteries

- Unmatched Safety: Equipped with 62 BMS protections to ensure comprehensive safety for your system.
- Space-Saving Efficiency: Replace four 12V 100Ah batteries with a single REGO 12V 400Ah battery, accessing 5.12kWh of energy storage. This upgrade reduces installation space by 30% and eliminates six cables.
- Temperature Resilience: Operates effectively across a wide discharge temperature range of -20°C to 55°C, maintaining peak performance in various climates.
- Waterproof Design: Features an IP65-rated enclosure for durability and protection against the elements.
- Smart Connectivity: Built-in Bluetooth enables seamless wireless pairing with smart monitors like Renegy ONE M1 or ONE Core, without requiring additional hardware.
- Convenient Maintenance: Simplify storage or system maintenance with a handy on/off button for safe and quick operation.
- Optimized Integration: Includes a built-in 4/0 AWG connection cable with an Anderson connector (1-foot extension cable available). Specifically designed to plug directly into the REGO System Combiner Box or Battery Combiner Box for streamlined installation.

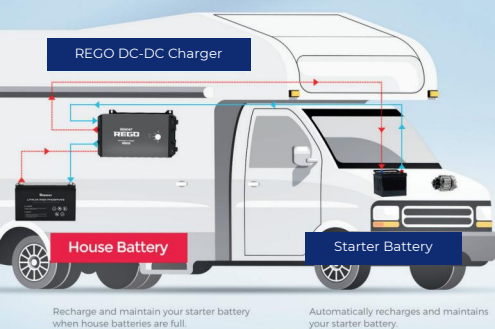


REGO 12V 400Ah LiFePO4 Battery

Model No.	RBT12400LFPL-SHBT
Battery Type	Lithium Iron Phosphate
Nominal Voltage	12.8V
Rated Capacity	400Ah (5120Wh)
Cycle Life (0.5C, 25°C)	6000 Cycles at 80% DOD
Maximum Charge Current	Continuous in 300A
Maximum Discharge Current	Continuous Discharging in 350A
Communications	CAN (RV-C) , Bluetooth
Charge Temperature Range	0 to 55°C
Discharge Temperature Range	-20 to 55°C
Connection Method	Parallel (Up to 8)
Housing Material	Die Cast Aluminum/Extruded Aluminum
Dimensions	457 x 267.2 x 329 mm
Weight	51 kg
Certification	IEC62619/62620, UN38.3, FCC,UL1973
Warranty	5 Year

INDUSTRY EXCLUSIVE BIDIRECTIONAL CHARGING

Keeps your house batteries and starter battery charged so you don't get stranded



EASILY SELECT YOUR BATTERY TYPE

Reliable and easy to use selector, no more complicated data setting steps



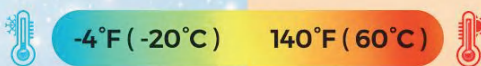
COMPATIBLE WITH MULTIPLE BATTERY TYPES



GUARANTEED QUALITY CERTIFIED PERFORMANCE



TEMPERATURE RESISTANT DESIGN



BUILT-IN BLUETOOTH MODULE



REGO 12V 30A 60A DC-DC Battery Charger



Model No.	RBC2115DS-21W	RBC1260DO-12B (DC-DC Battery Charger)
System Voltage	12V / 24V - 12V / 24V	12V - 12V
Power Type	DC to DC	DC to DC
Solar Input Voltage	/	/
Alternator Input	Traditional Alternator: 13.5-16.0VDC Smart Alternator (Euro 6): 12.5-16.0VDC	Traditional Alternator: 13.5 - 16VDC Smart Alternator (Euro 6): 12.5 - 16VDC
Maximum Output Current Rating	30A	60A
Rated Max Charge Power	450W	800 W
Communications	CAN (RV-C) , Bluetooth	
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4), User Mode	
Operating Temperature Range	-35 °C to 80°C	-20 °C to 60°C
Dimensions	237 x 153 x 108 mm	353.53 X 212.75 X 102.21mm
Weight	2 kg	3.12kg
Certification	FCC, CE and RoHs, UL1741,CAN/CSA-C22.2 No.107.1	
Warranty	5 Year	5 Year



High Temperature Protection



Overvoltage Protection



Undervoltage Protection



Low Temperature Protection



Reverse Polarity Protection



Reverse Current Protection



Short Circuit Protection



Power Limiting Protection



BPU (Battery Portable Unit) Protection

High-Efficiency Solar Charge Controller

Unmatched efficiency, seamless connectivity, and easy installation



99.9%

MPPT Tracking Efficiency



Built-in Bluetooth



Plug-and-Play

Versatile Battery Compatibility

Supports multiple voltage platforms from 12V to 48V and various battery types



12V

24V

36V

48V

RENOGY × Amphenol

Plug-and-Play Design with Zero Installation Errors

IP43



NEW



NEW



Model No.	RCC2430REGO	RCC30REGO
System Voltage	12V/24V	12V/24V/36V/48V
Power Type	DC to DC	DC to DC
Solar Input Voltage	100V	150V
Maximum Output Current Rating	30A	
Rated Max Charge Power	450 W (12V Battery) 900W (24V Battery)	440 W (12V Battery);880W (24V Battery) 1314 W (36V Battery);1700W (48V Battery)
Communications	CAN (RV-C) , Bluetooth	
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4), User Mode	
Operating Temperature Range	-35°C to 65°C	
Dimensions	170 x 120 x 60 mm (Solar connector length not included)	250 x 188 x 80 mm (Solar connector length not included)
Weight	3.6 kg	2.7 kg
Certification	FCC, RoHS, CE, SAA, RCM, and UL 1741	FCC, RoHS, CE, SAA, RCM, and UL 1741
Warranty	5 Year	5 Year

ULTRA FAST MAXIMUM POWER POINT TRACKING

Up to **99%** Tracking Efficiency

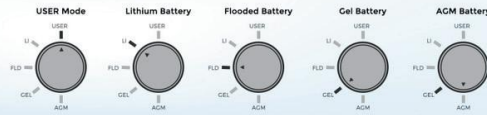


SIMPLE BATTERY TYPE SETUP

Reliable and easy-to-use selector, no more complicated settings or wiring required



Set up and optimized performance are easy with preprogrammed charge settings. Simply select your battery type by turning the knob. To customize settings for your application using the **DC Home APP**, select **USER**.



NEXT-LEVEL PROTECTION FOR THE WHOLE SYSTEM

High-temperature Protection

REGO's smart technology eliminates risk of battery and charge controller damage from high temperatures.

Integrated Battery Protection Unit

The BPU provides advanced protection against short circuit and device damage.



Solar Terminal Protection



Overvoltage Protection



Short Circuit Protection



Night Back-flow Protection

Battery Terminal Protection



Overcharge Protection



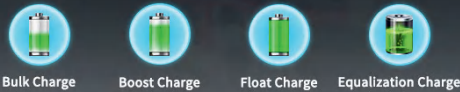
Over-discharge Protection



Reverse Polarity Protection

EASY BATTERY MANAGEMENT SET UP

Provides maximum efficiency and optimize the battery charge for long lasting performance



BUILT-IN BLUETOOTH CONNECTIVITY

Monitor and control your battery charging on your smart phone with the Renogy DC Home App



RELIABLE PERFORMANCE IN ANY CLIMATE

-4°F (-20°C) **140°F (60°C)**



REGO 12V 60A MPPT Solar Charge Controller



Model No.	RCC60REGO
System Voltage	12V
Power Type	DC to DC
Solar Input Voltage	100V
Alternator Input	/
Maximum Output Current Rating	60A
Rated Max Charge Power	800W
Communications	CAN (RV-C) , Bluetooth
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4), User Mode
Operating Temperature Range	-20 °C to 60°C
Dimensions	239.4 x 187 x 108.8 mm
Weight	2.30 kg
Certification	FCC, CE and RoHs, UL1741,CAN/CSA-C22.2 No.107.1
Warranty	5 Year

NEW

REGO 12V 3000W HF INVERTER CHARGER

Ideal for caravans with high-power appliances, offering efficient performance and advanced safety features.



Peak Conversion
Efficiency > 90%



Transfer Time
< 20ms



ECO and Sleep
Modes



Pure Sine Wave
THD < 3%



SAA Certified for
reliability



Interfaces
Bluetooth, RVC



Battery Versatility

- **Activation & Heating:** Supports lithium battery activation and heating film for optimal performance in cold environments.
- **Compatibility & Easy Configuration:** Works with lithium, GEL, flooded, SLD, and AGM batteries. Easy configuration with simple switch setup for battery type, output frequency, and input priority.

Multi-Stage Charging

- **Charging Stages:** Offers up to three-stage charging for various battery types.
- **Adjustable Current:** Supports adjustable charging current up to 150A to meet different power needs.

Multiple Protections

- **Safety Features:** Provides undervoltage, overvoltage, overcurrent, overload, overtemperature, short circuit protections, and DC reverse polarity protection.

Automatic Generator Start

- **Dry Contacts:** Equipped with dry contacts for automatic generator start/stop function, facilitating efficient battery charging.

Soft Start Function

- **DC Pre-Charge:** The inverter starts slowly, ensuring safe and reliable operation with various batteries.

Energy Saving MODES

- Features ECO and Sleep modes for enhanced energy efficiency.

Power Assist Function

- **Output:** Combines AC and inverter power for a maximum continuous output of 6000W.

Built-in Bluetooth and RV-C Communication

- **Connectivity:** Connects to the DC Home app for energy data monitoring, control, and configuration.
- **OTA Upgrades:** Supports over-the-air firmware upgrades.
- **RV-C:** Supports RV-C communication for seamless integration with RV systems.

RIV1230RCH-23S

Rated Output Power	3000W@45°C
Surge Power (1 second)	9000VA
Surge Power (3 seconds)	4500VA
Surge Power (10 seconds)	3600W
Nominal output Voltage RMS	240Vac
Communications	CAN (RV-C) , Bluetooth
Output Frequency	50Hz ± 0.1Hz or 60Hz ± 0.1Hz, default 50Hz
Output Wave Form	Pure Sine Wave
Nominal Input Voltage	12 VDC
Input Voltage Range	9~ 17 VDC ± 0.3 VDC (Full load 11-15.8Vdc)
Short Circuit Protection	Software Protection
THD	< 3% (Resistance load)
Nominal Efficiency	> 90% Peak
No load power Consumption (Sleep)	< 20W (Normal)



CHARGER SPECIFICATIONS

Nominal Input Voltage	187-265 VAC
Input Frequency Range	45-65Hz
Optimal Efficiency	>91%
Output Current	150A @25°C, 5~150A adjustable,5A intervals, default 150A
Short Circuit Protection	Circuit Breaker

TRANSFER SWITCH SPECIFICATIONS

Transfer Time	Max. 20 ms
Line Mode Efficiency	> 95%
Transfer Relay Rating	Max.30 A , Max.6000W

GENERAL SPECIFICATIONS

Battery Types	GEL, AGM, SLA, FLD, LI, USER
Operating Temperature Range	Full load: -4°F to 113°F / -20°C to 45°C Down load: 113°F to 140°F / 45°C to 60°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Humidity	0% to 95%
Noise	<54dB
Dimensions	18.66 x 12.13 x 4.29 in / 474 x 308 x 109mm
Weight	19.4 lbs / 8.8 kg

WIRED REMOTE CONTROL

Dimensions	2.8 x 4.3 x 1.3 in / 70 x 110 x 31.8 mm
Wire length	Approx 16.4ft

STANDARD

EMC	EN61000
Safety	AS/NZS 60355 AS/NZS 4763
Warranty	5 - Year



REGO 500A Combiner Box

Model No.	ROA500CB-98
Voltage range	9 - 60Vdc
Rated Current	500A
Connector	M8 Busbar
Enclosure material	Sheet metal
Busbar material	Tinned copper
Busbar dimensions	4 x 30 mm
Weight	2.6 kg
Enclosure dimensions	263 x 160 x 100 mm
Warranty	1 Year



REGO 3 Port 400A Battery Combiner Box

The REGO Battery Combiner Box is designed to work with REGO 400Ah lithium batteries, allowing you to expand your solar system's capacity. Each combiner box connects up to 3 REGO batteries, and multiple boxes can be used to expand the system to a total of 8 batteries in parallel, offering up to 40kWh of capacity.



Model No.	REC400RBCB-3P
Connector Rated Voltage	600VAC/DC
Rated Current	400A
Connector	Gray Anderson 350 Connectors (4)
Terminals	M8 Insert Terminals (2)
Terminal Torque	70.8 inch-lbs (8 N·m)
Terminal Screw	M8 x 1.25 x 20 mm
Weight	10.0 kg
Enclosure dimensions	346 x 225 x 203 mm
Warranty	1 Year



FAQs

What is Renogy REGO?

- REGO (REnogy on the GO) by Renogy is an all-in-one system designed to power your RV, van, motorhome, travel trailer, or 5th wheel. It includes five essential components, all necessary wiring, fuses, and a Renogy ONE – a smart energy monitoring and home automation system to seamlessly integrate and optimize your solar setup.

Approximate Installation Time?

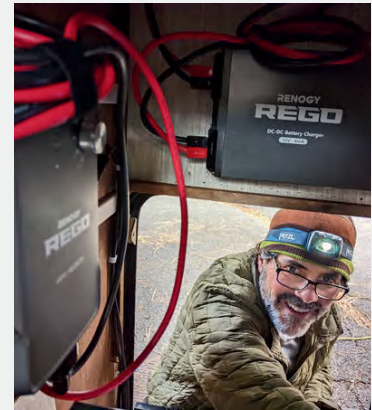
- The five key REGO components can be connected in under an hour, thanks to the included wiring and easy Anderson connectors that “click together” for a hassle-free setup. However, you’ll need to allocate additional time to integrate the system into your RV’s existing space and electrical setup, wire your tow vehicle, and install the solar panels.



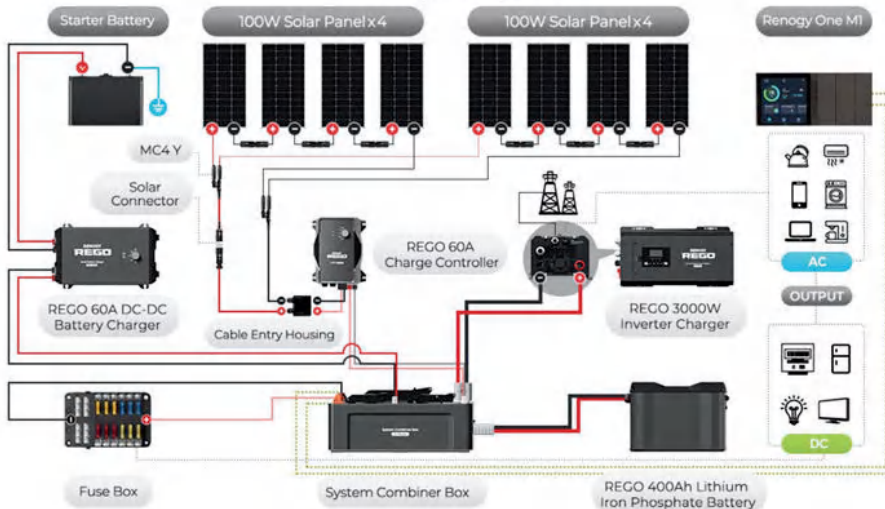
Freedom in a Can

Explore our complete video installation series for a step-by-step guide through the entire process.

<https://www.youtube.com/@FreedomInACan>



Wiring Diagram

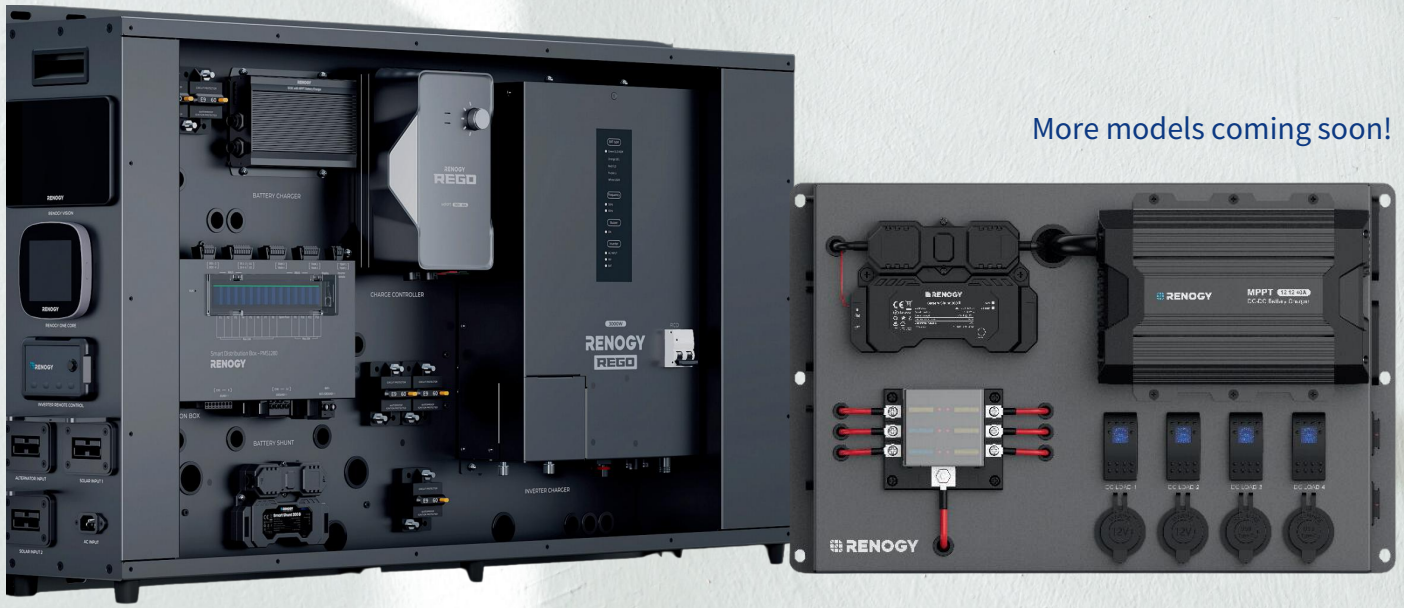


REGO with Other Products?

- REGO by Renogy components are fully compatible with Renogy Pro and Core systems, as well as off-grid power systems from other brands, ensuring seamless integration and versatility.



Pre-wired Power Box



More models coming soon!

Simplify your power setup with the Renogy Pre-Wired Power Box, expertly crafted for a wide range of applications including 4WD canopies, caravans, camper trailers, commercial work vehicles, and beyond. Designed with versatility in mind, this all-in-one solution offers six adaptable layouts to suit virtually any power configuration needs.

Model No.	RPB32REGO	RPSD7NPB
Charge Controller	12V 60A REGO MPPT Charge Controller	12V/24V 40A IP67 Dual Battery Charger
Battery Charger	12V/24V 50A IP67 Dual Battery Charger	
Inverter Charger	12V 3000W REGO Pure Sine Wave HF Inverter Charger	/
Battery	/	/
Monitors	RENOGY ONE Core RENOGY ONE Vision	RENOGY Battery Shunt Renogy DC Home App
DC Input	120A Solar Input x 2 120A Alternator Input x 1	50A Solar Input x 1 50A Alternator Input x 1
AC Input	220-240V AC Charger Input x 1	/
DC Output	350A Auxiliary Battery x 2 50A DC Load x 2 20A DC Load x 4 10A DC Load x 4 CIG x 2 USB&TYPE C x 2	50A Auxiliary Battery x 1 50A DC Load x 2 20A DC Load x 4 CIG x 2 USB&TYPE C x 2
AC Output	220-240V AC Output x 1	/
Dimensions	1100 x 204 x 675 mm (L x W x H)	410 x 260 x 90 mm
Warranty	5 Year	3 Year



- Battery Switch x 2
- 350A Anderson Ports x 2
Connect to Battery
- 50A Anderson Ports x 2
Connect to DC Load
- 20A Anderson Ports x 4
Connect to DC Load
- 10A Anderson Ports x 4
Connect to DC Load
- 240V AC Output x 2
Output AC Power
- USB C Sockets x 2
- CIG Socket Sets X 2



EASY MONITORING WITH DISPLAY AND APP



PRE-WIRED FOR EASY SETUP



DURABLE FOR TOUGH CONDITIONS

- Renogy Vision 7 inch Control Touch Pad
- Renogy ONE Core 4 inch Monitor
- Inverter Control
- 120A Anderson Ports x 2
Connect to Solar Panel or Start Battery
- 120A Anderson Ports x 1
Connect to Solar Panel
- 240V AC Input x 1
Connect to AC Power





Power Management

Effortlessly monitor Renogy off-grid power systems from anywhere with the Renogy DC Home App, Renogy ONE Core Touch Screen and Renogy ONE Portal, delivering a seamless and comprehensive energy management experience.

Unlock the Future of Energy with EIoT Technology

Revolutionise the way you manage your energy with Energy IoT—the cutting-edge technology that connects your energy system and home appliances to the internet, enabling seamless monitoring, control, and optimisation of energy production, consumption, and storage.

- Renogy Bluetooth Module
- Renogy ONE Core 4-Inch Touchscreen (Gateway)
- Renogy ONE Core 7-Inch Touchscreen
- Renogy Smart Distribution Box
- Renogy DC Home App
- Renogy ONE Online Portal



Online Demo <https://one.renogy.com/>

Why EIoT Matters to You

Energy Transparency – Your Personal Power Dashboard

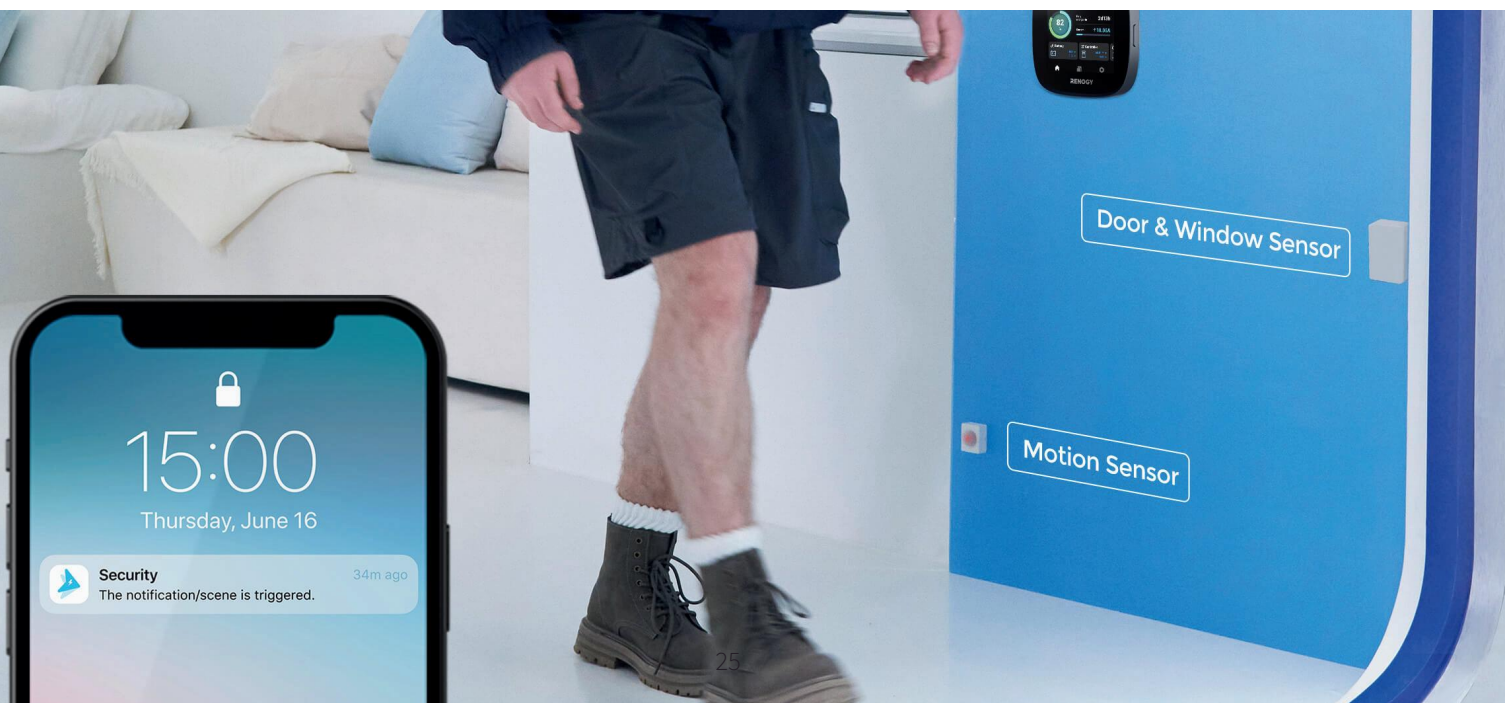
Just like a car's dashboard, Energy IoT gives you real-time insights into how much energy you're generating, storing, and using—ensuring you never run out of power unexpectedly.

Simplified Control for Safety & Convenience

Easily manage your system with a user-friendly interface. Turn off inverters, batteries, or the entire system for maintenance or emergencies, all with a touch of a button.

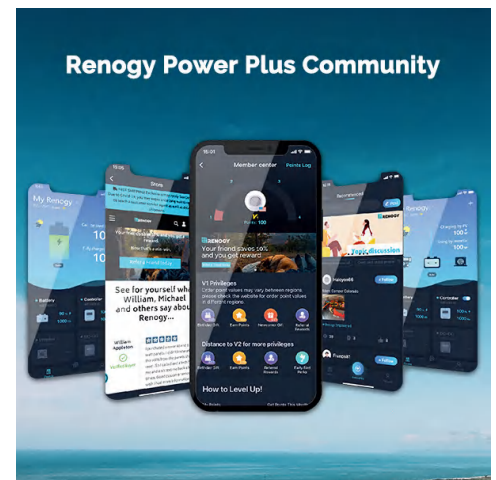
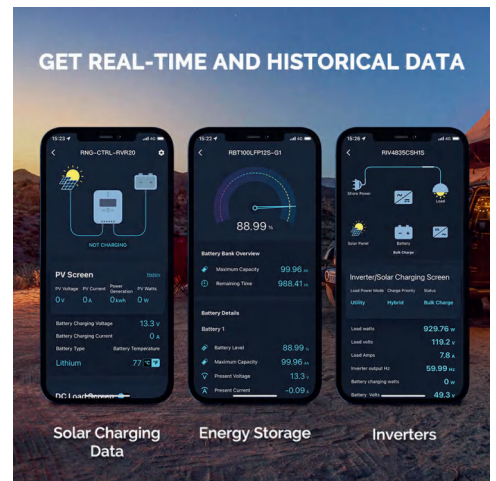
Smart Power Management – Save Energy, Save Costs

Connect and control your appliances for smarter energy use. Energy IoT optimises power, reduces waste, and helps you save on costs, just like a smart home.



Renogy Bluetooth Module



Model No.	NEW RCM-BT2	RCM-BT1
Communications	RS485 (Modbus)	RS232 (Modbus)
Port Type	RJ45	RJ12
Input Voltage	5V or 12V	5V or 12V
Protection Grade	IP54	IP54
Communication Range	25m	25m
Cable Length	5.00 m	5.00 m
Weight	130g	130g
Dimensions	67.3 X 35 X 14 mm	
Warranty	1 Year	1 Year



Renogy DC Home App








Renogy ONE All-in-One Monitor (4')

Product Name	Renogy ONE Core	Renogy ONE M1
Product Name		
Model No.	RSHGWSN-W02W	RMS-LP4
Communications	Wi-Fi (IEEE 802.11b/g/n 2.4 GHz) Bluetooth LE and Bluetooth Mesh Zigbee 3.0 (IEEE 802.15.4) RS485(Modbus), CAN(RV-C)	Wi-Fi (IEEE 802.11b/g/n 2.4 GHz) Bluetooth 2.1/4.2 and Bluetooth LE Zigbee 3.0 (IEEE 802.15.4) RS485(Modbus), CAN(RV-C)
Leveling Range and Accuracy	±89°, 0.1°	N/A
Input Voltage	8-60 VDC (5 VDC for USB Type-C)	8-16 VDC (5 VDC for USB Type-C)
Operating Temperature	-20°C to 70°C	-20°C to 50°C
Installation	Flush mount or place on a table	Flush mount
Touch Screen	4 inches (480 x 480p)	4 inches (480 x 480p)
Weight	128g	286 g
Dimensions	106 x 106 x 26.6 mm	181.8 x 86.8 x 42.2 mm
Warranty	2 Year	



Compatible devices include, but are not limited to:

Devices with Built-in Bluetooth Modules						
Devices Compatible with the BT-1 Bluetooth Module Charge Controller						
Devices Compatible with the BT-2 Bluetooth Module						
Devices Support Zigbee Connection						

RENOGY Battery Shunt 300



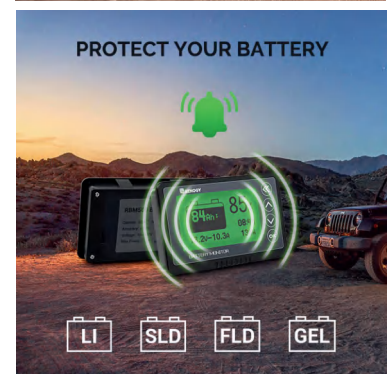
Model No.	RSHST-B02P300
Battery Type	Lead Acid, LFP, Li-ion, and Ni-MH.
Battery connection	M10 bolts
Power Supply	8 - 120 VDC
Communications	Bluetooth LE and BLE Mesh
Max continuous current	300A
Max peak current	500A(<10s)
Current accuracy	±1%
Voltage Input Range	8 - 60V
Voltage input resolution	10 mV
Operating Temperature	-20°C to 50 °C
Weight	260g
Dimensions	134 x 97 x 31 mm
Certifications	CE, FCC ID, IC ID, RCM, TSCA, RoHS, UN38.3, TELEC
Warranty	1 Year



500A Battery Monitor With Shunt



Model No.	RBM500
Battery Type	Lead Acid (AGM, GEL), Lithium Iron Phosphate, Lithium-ion, Nickel-metal hybrid
Standby Dissipation	1-2mA (Standby)
Working Dissipation	10-15mA
Backlight on current (>50A)	100mA
Display	LCD with Green Backlight (brightness is adjustable)
Communications	N/A
Current accuracy	±1%
Voltage accuracy	±1%
Voltage Input Range	10-120V
Operating Temperature	-10 °C to 60°C
Weight	75 g
Dimensions	99 x 61 x 18 mm
Certifications	ROHS
Warranty	1 Year



RENOGY ONE Vision All-in-One Monitor (7")



Model No.	NEW RSH5N-W02W7-G1
Power Supply	8 to 60V DC
Power Consumption	< 2W (Standby)
Touch Screen	7 in 600 x 1024 p
CPU	ARM Cortex-A53 Quad-core 64-bit, 2.4 GHz
Memory	2GB + 16GB
WiFi	2.4G Hz/ 5Hz
Communications	Wi-Fi (IEEE 802.11b/g/n 2.4 GHz) Bluetooth 5.0
Ethernet	10 or 100 Mbps
Operating Temperature	-20°C to 70 °C
Weight	350g
Dimensions	178 x 115 x 23.7 mm
Certifications	FCC, CE
Warranty	2 Year



Renogy's Power Management Solutions

FAQs

How to I connect Renogy ONE Core with different types of batteries to set up a battery monitoring system?

- The Renogy ONE Core functions as a power monitor when connected to Renogy batteries with Bluetooth (built-in or via BT-1/BT-2 modules) and RS-485. Note: It does not include a shunt.

What types of power systems are compatible with the Renogy ONE Core?

- Renogy ONE Core can be powered by a 5V DC source via Type-C or an 8V-60V DC source through the power cable. It supports energy monitoring for power devices rated at 12V DC, 24V DC, or 48V DC.

What is the difference between the BT-1 and BT-2?

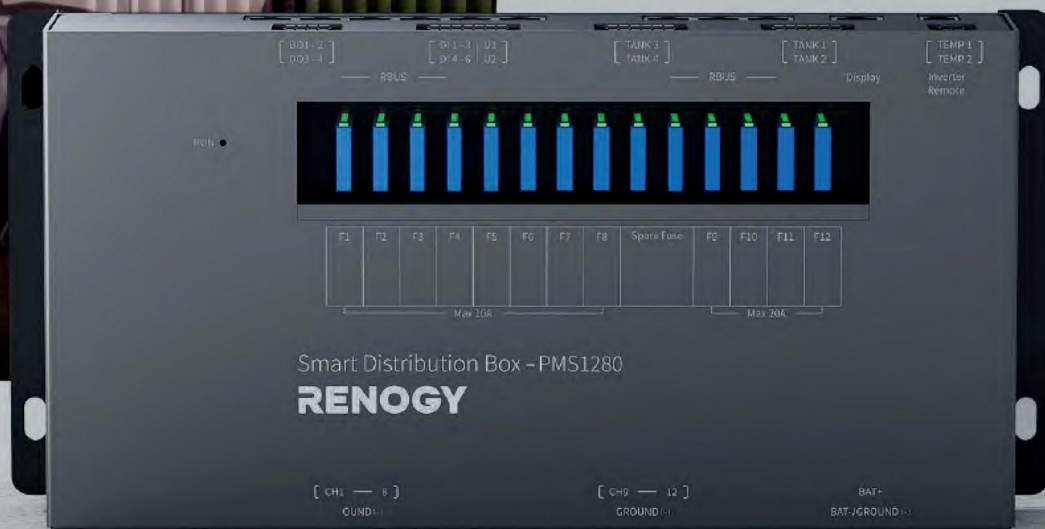
- The BT-1 uses the RS232 communication protocol and is only compatible with devices featuring RJ12 connections. The BT-2, utilizing the RS485 protocol, works seamlessly with the Renogy Communication Hub, enabling connection to multiple Renogy devices for real-time system monitoring.

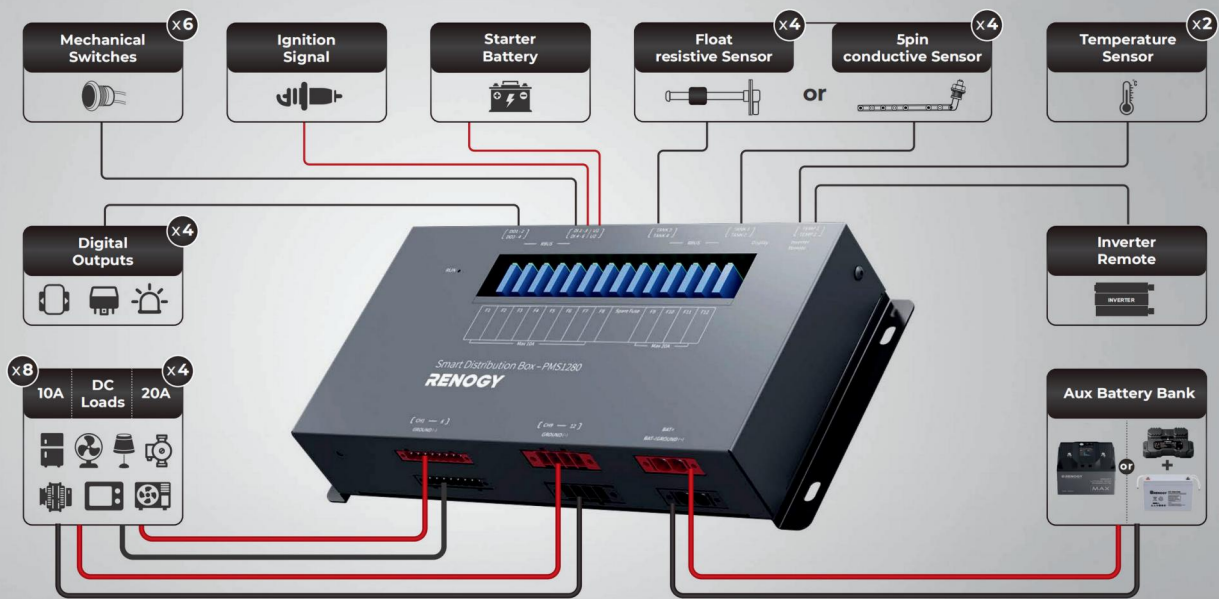
What type of products are compatible with the BT-2 Bluetooth Module?

- Only devices with an RS485 communication port are compatible with the BT-2 Bluetooth Module. For a detailed list of compatible devices, please refer to the product page.

Renogy Smart Distribution Box

The Smart Distribution Box is designed specifically for RV and motorhome applications, acting as an advanced power distribution control device. It seamlessly integrates with RV-C communication protocols and is fully compatible with the Renogy ONE Core data display. The box combines multiple functions, including monitoring multi-channel water tank and LPG levels, temperature, voltage, and controlling AC/DC circuits, among others.





RENOGY Smart Distribution Box

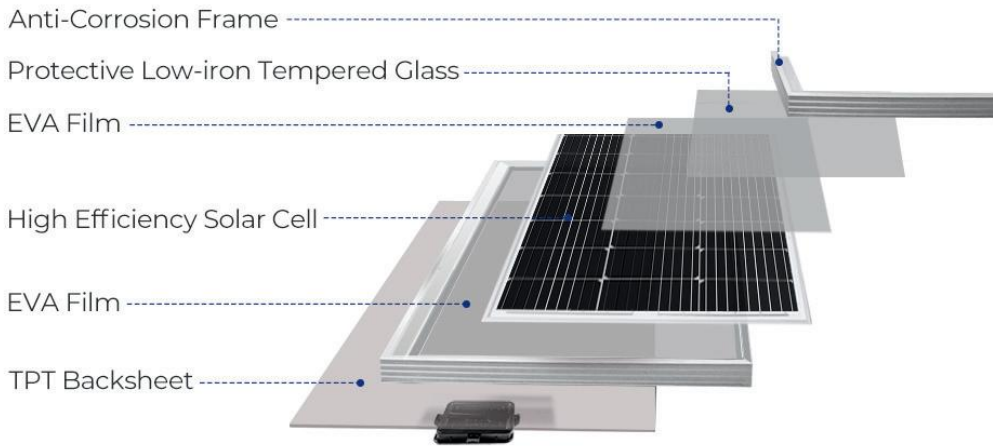
Model No.	RSHCB-C02P-G1
Operating Voltage	8 to 60V DC
Power Consumption	< 1.5 W (Standby)
DC Loads	10A x 8 20A x 4
Temperature Sensor	2-channel, NTC -20 to 80°C, ±3°C
Voltage Sampling	2-channel, 0 to 60V DC
Current Sampling	Max 25A Sampling accuracy: ±1%
Dry Contact	Input Signal x 6 Output Signal x 4
Communications	CAN (RV-C)
Operating Humidity	0% to 95% RH
Operating Temperature	-20°C to 70 °C
Weight	1980 g
Dimensions	340 x 157 x 66.4 mm
Certifications	FCC, CE, LVD, RCM
Warranty	5 Year

- Advanced user-programmable functions for personalized control
- Automatic low-voltage cutouts and high-voltage cut-ins for enhanced safety
- Automatic switching and load shedding capabilities
- Seamless integration with Renogy ONE Core and the Renogy DC Home App allows for remote monitoring, control, alerts, and troubleshooting.
- Supports a total input current of 80A
- Controls 12 DC loads, each equipped with built-in current sensors
- Pre-fused outputs with blown fuse indicators for easy maintenance

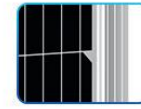
Fixed Monocrystalline Solar Panels

Explore Renogy's Fixed Mono Solar Panels, a top seller with a 4.8/5 rating, renowned for their efficiency and reliability. Designed for fixed installations, these panels are perfect for the roofs of caravans, RVs, motorhomes, camper trailers, and 4x4 vehicles.

Built with Premium Materials



Impact Resistance
Low-iron Tempered Glass



Corrosion Resistance
Durable Aluminum Frame



Sturdy Structure
PA66 GB30 Corner Support

25-Year Performance Warranty

5 years Output Warranty **95%**

10 years Output Warranty **90%**

25 years Output Warranty **80%**

PERC vs. Conventional

PERC

Sunlight

Dielectric passive layer

Reflected light will generate additional current.

Conventional

Sunlight

Light is absorbed by the aluminum metallization.

The Perfect All Weather Panel

IP68

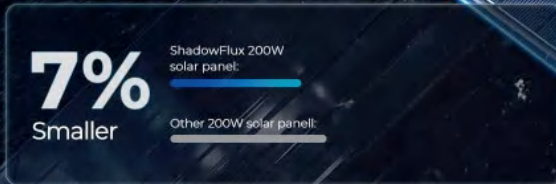
*IP68 Rated J-Box and IP68 Rated Solar Connector



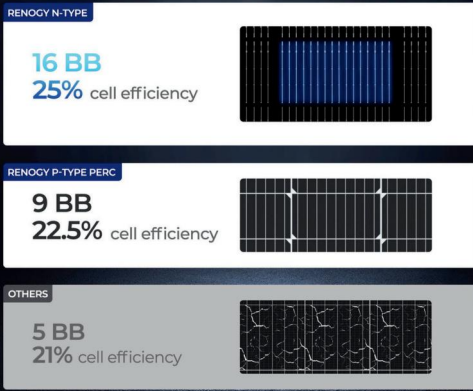
Max Power at STC	50W	100W	175W	200W
Model No.	RNG-50D-SS	RSP100DC	RSP175DC	RSP200DC
Optimum Operating Voltage	20.3V	19.97V	20.88V	31.03V
Optimum Operating Current	2.46A	5.01A	8.38A	6.45A
Open Circuit Voltage	24.3V	22.79V	24.48V	37.44V
Short-Circuit Current	2.67A	5.31A	8.88A	6.85A
Cable	14AWG 400mm	14AWG 600mm	14AWG 700mm	14AWG 700mm
Dimensions	578 x 503 x 30mm	865 x 578 x 30 mm	1110 x 764 x 30 mm	1262 x 764 x 30 mm
Weight	3.3 kg	5.9kg	9.6 kg	10.6 kg
Stand Test Condition	Air Mass 1.5 1000 Watts / m ² 25°C			
Operating Temperature	-40°C to 85°C			
Warranty	10-Year warranty on materials and workmanship. 25 Year Performance Warranty			

25% Cell Efficiency

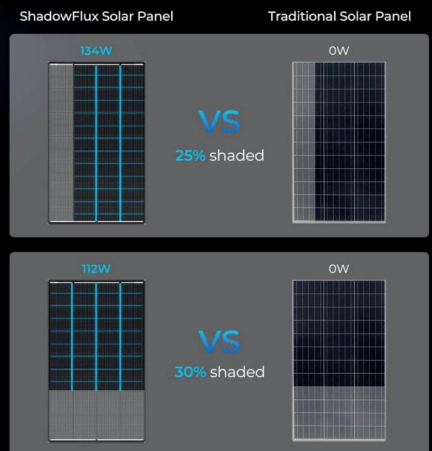
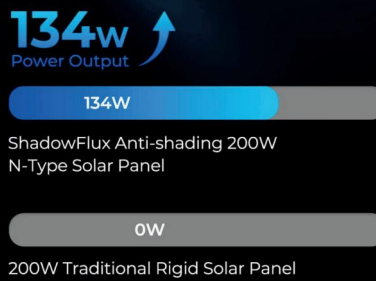
ShadowFlux Anti-shading N-Type Solar Panel



Lead the Evolution in Efficiency and Performance



Cell-Level Shadow Management Tech



*Performance results are based on tests conducted under STC.



Max Power at STC	200W
Model No.	RSP200DC-ASR
Optimum Operating Voltage	31.3V
Optimum Operating Current	6.38A
Open Circuit Voltage	36.5V
Short-Circuit Current	6.86A
Cable	14AWG 700mm
Dimensions	1262 x 764 x 30 mm
Weight	10.81kg
Stand Test Condition	Air Mass 1.5 1000 Watts / m ² 25°C
Operating Temperature	-40°C to 85°C
Warranty	5-Year warranty on materials and workmanship. 25 Year Performance Warranty

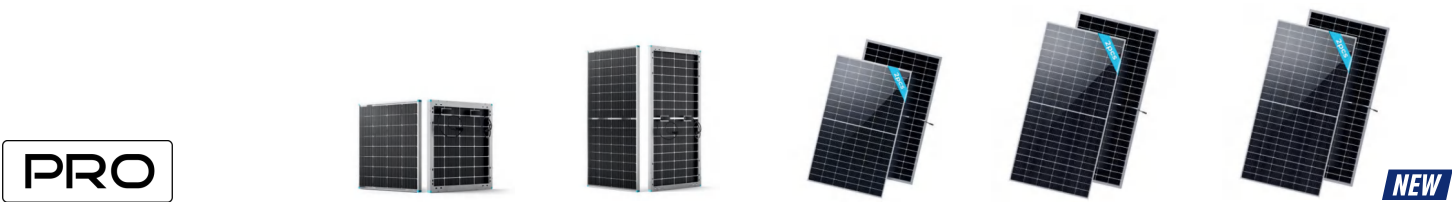
Bifacial Monocrystalline Solar Panel

PRO

Renogy bifacial solar panels capture energy from both the front and rear sides, generating more electricity per square meter compared to traditional single-sided panels.



Generate up to 10-30% more electricity depending on installation and environmental conditions.



PRO

Max Power at STC	115W	220W	450W	550W	590W
Model No.	RSP115DT	RSP220DT	RSP450DT-120	RSP550DT-144	RSP590DCT-144
Optimum Operating Voltage	18.8V	18.80V	34.67V	41.97V	43.71V
Optimum Operating Current	6.12A	11.71A	12.98A	13.11A	13.50A
Open Circuit Voltage	21.9V	21.9V	41.25V	49.95V	52.63V
Short-Circuit Current	6.70A	12.84A	13.89A	14.05A	14.13A
Cable	14 AWG 600mm	14 AWG 1000mm	12 AWG 1700mm	12 AWG 1700mm	12 AWG 1700mm
Dimensions	786x763x30mm	1547x763x30mm	1909x1134x35mm	2279x1134x35mm	2278 x 1134 x 35 mm
Weight	6.9kg	12.4kg	23.1kg	28.5 kg	28.5 kg
Warranty	10-Year warranty on materials and workmanship. 25 Year Performance Warranty				



CIGS Solar Panel

CIGS solar panels—short for copper indium gallium selenide—are a type of thin-film solar panel technology.

- **Low-Light Performance:** CIGS panels excel under low-light conditions, such as cloudy days or partial shading, generating electricity even when sunlight intensity is reduced. This makes them ideal for diverse climates.
- **Temperature Coefficient:** With a lower temperature coefficient than silicon-based panels, CIGS panels maintain higher efficiency in hot conditions, ensuring consistent performance in varying weather.
- **Durability:** CIGS panels are highly resistant to degradation from UV exposure and environmental factors, offering long-term reliability and durability compared to other thin-film technologies.



Easy Installation



STEP 1

Clean and dry the installation area.



STEP 2

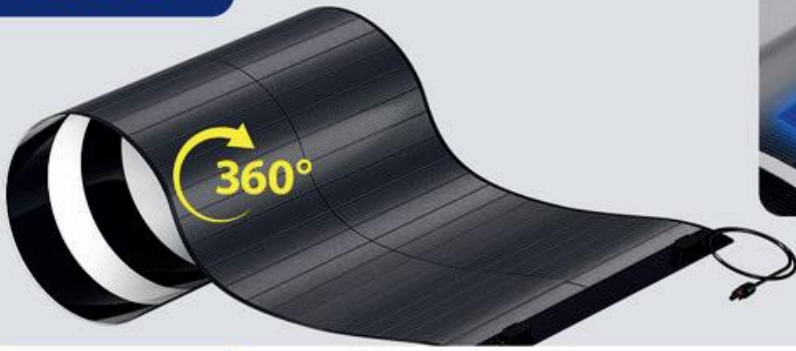
Peel off the adhesive tape and attach the solar panel.



STEP 3

Allow the solar panel to sit undisturbed for 24 hours.

RENOGY



- Durable
- 25-year warranty

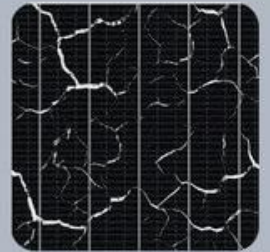
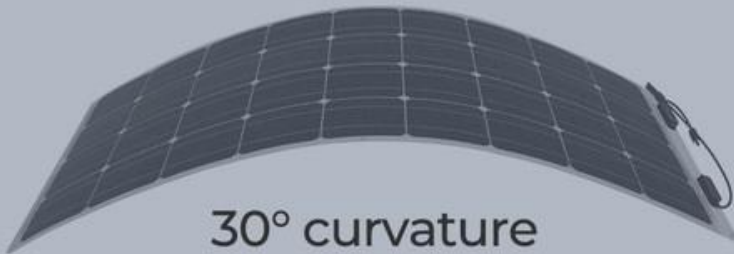
RENOGY



- No microcracks
- 23% cell efficiency

OTHERS

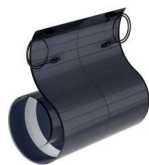
Semi-Flexible Panel



- Breakable
- 1-year warranty

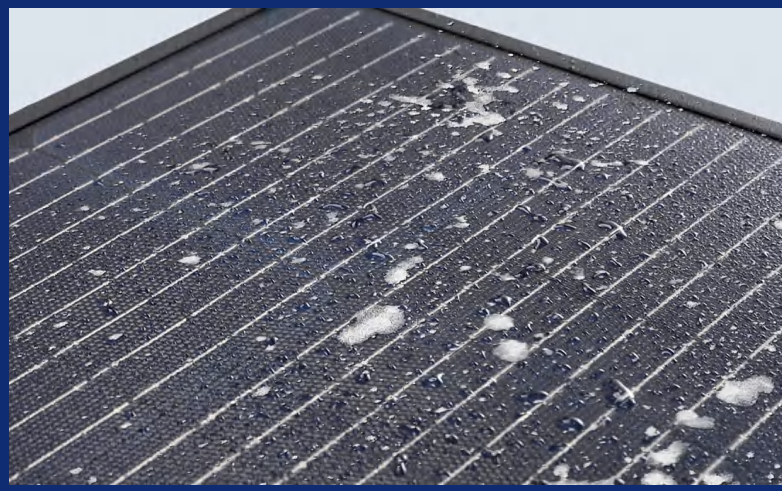
PRO

NEW



Max Power at STC	150W	100W	175W	200W
Model No.	RSP150MCB-BB-P	RNG-100DB-H	RNG-175DB-H	RSP200DB-72
Optimum Operating Voltage	18.66V	20.7V	19.5V	20.1V
Optimum Operating Current	8.04A	4.84A	8.98A	10.02A
Open Circuit Voltage	23.75V	24.4V	23.9V	23.9V
Short-Circuit Current	9.34A	5.16A	9.50A	10.74A
Cable	12 AWG 900mm	12AWG 700mm	12AWG 700mm	12AWG 700mm
Dimensions	1658 x 646 x 1.5mm	1093 x 582 x 3mm	1504 x 673 x 2mm	1605 x 748 x 3mm
Weight	3.0kg	1.8 kg	2.8 kg	4.9 kg
Warranty	5-Year warranty on materials and workmanship.			

Lightweight Portable Solar Suitcase



Protective Case

- Portable and designed with impact protection for safe transportation.

Fiberglass Reinforcement

- Ensures exceptional durability, even in light hailstorms.



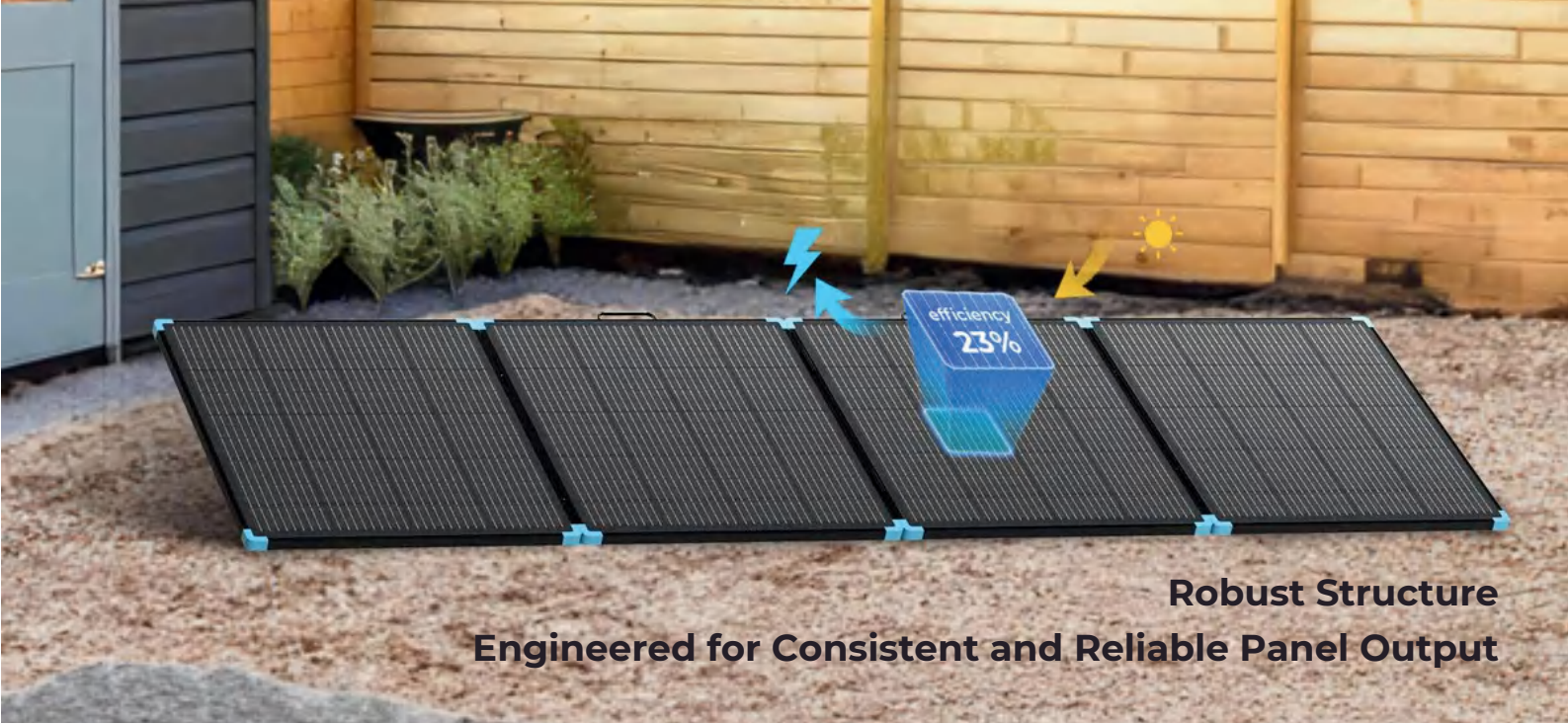
Corner Protection

- Enhances longevity and resilience, protecting against wear and tear.



ETFE Coating

- Enhances durability and weather resistance for long-term performance.



**Robust Structure
Engineered for Consistent and Reliable Panel Output**

Premium Materials for Outdoor Use
Reinforced with fiberglass material for enhanced durability

REVOOY	OTHERS
Fiberglass Reinforced Material	Composite Laminated Material
<ul style="list-style-type: none"> Corrosion resistance 5-year warranty Aluminum alloy frame Sturdy and flat 10-year power warranty 	<ul style="list-style-type: none"> Prone to damage 1-year warranty Laminated frame Filmy and sagging Rapidly diminished power output

Enhanced Durability and Longevity
Exceeding IP67 waterproof standards for endurance against dirt, dust, and water

>IP67

Comprehensive Warranty
Deliver a secure, reliable off-grid experience backed by a decade of power warranty and five-year quality guarantee

10-Year Power Warranty
 5-Year Material Warranty

PRO



Max Power at STC	220W	400W
Model No.	RSP220LSC	RSP400LSC
Optimum Operating Voltage	20.0 V	40V
Optimum Operating Current	11.0 A	10A
Open Circuit Voltage	23.6 V	47.2V
Short-Circuit Current	12.1 A	11A
Output	MC4 Port (IP68 Protection)	MC4 Port (IP68 Protection)
Dimensions (folded)	460 x 730 x 80 mm	708 x 855 x 80mm
Dimensions (unfolded)	1843 x 730 x 20 mm	2838 x 855 x 20 mm
Weight	7.2 kg	13.7 kg
Warranty	5-Year warranty on materials and workmanship	



Solar Charge Controllers

Renogy MPPT technology delivers up to 99% tracking efficiency and 98% peak conversion efficiency. It automatically detects 12V/24V/36V/48V systems (excluding lithium batteries) and provides comprehensive protection. With 4-stage charging, it ensures optimal battery performance, while diverse load control and remote monitoring enhance system management.

REVIVE FLAT BATTERIES

Restores flat batteries by delivering a small current to exit protection mode activated by the battery management system (BMS).



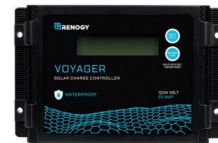
Temperature sensor and mounting brackets are included in the package.



Model No.	RNG-CTRL-RVR20	RNG-CTRL-RVR30	RNG-CTRL-RVR40	RNG-CTRL-RVR60
Nominal System Voltage	12/24V	12/24V	12/24V	12V/24V/36V/48V
Rated Charge Current	20A	30A	40A	60A
Max. PV Input Voltage	100 VDC	100 VDC	100 VDC	140VDC
Max. PV Input Power	12V/260W 24V/520W	12V/400W 24V/800W	12V/520W 24V/1040W	800W/12V; 1600W/24V 2400W/36V; 3200W/48V
Communications	RS485(Modbus) , Optional with BT-2			
Temperature Compensation	-3mV/°C/2V	-3mV/°C/2V	-3mV/°C/2V	-3mV/°C/2V
Operating Temperature Range	-35°C to 45°C	-35°C to 45°C	-35°C to 45°C	-35 °C to 45 °C
Dimensions	210 x 151 x 68 mm	238 x 172 x 77 mm	238 x 172 x 77 mm	285 x 205 x 102mm
Weight	1.4 kg	2.0 kg	2.0 kg	3.6 kg
Certification	FCC Class B Part 15 Compliant, CE, RoHS, ETL Listed to UL1741 and CSA C22.2			
Warranty	2-Year warranty on materials and workmanship			

NEW EDITION

VOYAGER PWM WATERPROOF CHARGE CONTROLLER



Product Name	Voyager 10A PWM Waterproof	Voyager 20A PWM Waterproof
Model No.	RCC10VOYP	RCC20VOYP
Nominal System Voltage	12/24V	12/24V
Rated Charge Current	10A	20A
Max. PV Input Voltage	15-55VDC	
Max. PV Input Power	12V/130W 24V/260W	12V/260W 24V/520W
Temperature Compensation	-3mV/°C/2V	-3mV/°C/2V
Enclosure	IP67	
Operating Temperature Range	-35°C to 45°C	
Dimensions	155 x 98 x 36 mm	
Weight	0.25 kg	
Electrical Protections	Battery/Controller over-temperature protection, PV/Battery reverse polarity, Over-voltage, Over-current protection	
Warranty	2-Year warranty on materials and workmanship	

Renogy's Solar Charge Controller

FAQs

Why is Charge Controller an essential part of a solar power system?

- Overcharging a battery can cause severe damage and even lead to fire hazards. A charge controller continuously monitors power flow from the panel, preventing such dangers while simplifying system usage and monitoring.

PWM vs. MPPT Charge Controllers: What's the Difference?

PWM (Pulse Width Modulator)

A simple regulator that connects solar panels to the battery or battery bank. It automatically switches on or off based on the battery's needs. PWM controllers are cost-effective and commonly used in smaller, straightforward systems, making them ideal for upfront savings.

MPPT (Maximum Power Point Tracking)

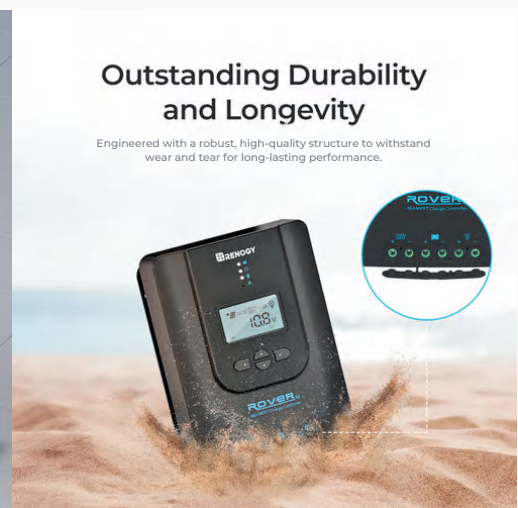
A more advanced solution that adjusts the input voltage to extract maximum power from solar panels, then converts it to meet the battery's needs while accounting for system loads like appliances and lights. MPPT controllers are more efficient, delivering long-term savings, especially in challenging climates or during prolonged low-solar conditions. However, they require a higher initial investment.

In summary, PWM controllers offer affordability for simpler setups, while MPPT controllers excel in efficiency and are ideal for maximizing performance in complex systems.

How do I choose among Renogy's line of charge controllers?

Renogy offers a wide range of charge controllers, each with different features depending on the type and size of system you seek to build.

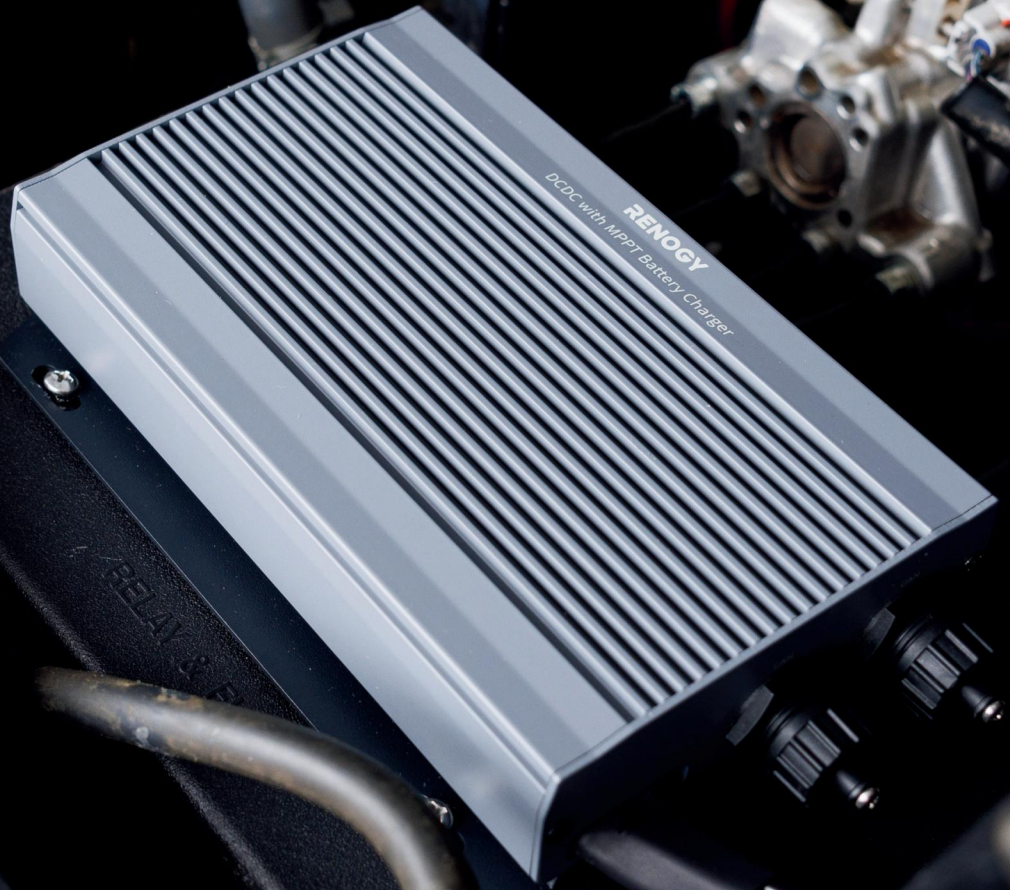
- **Wanderer Models (PWM)** - Designed for small and simple solar power systems. Can be used with many types of battery banks (flooded, gel, sealed, or Lithium Phosphate). Both models are compatible with 12V or 24V systems.
- **Voyager Model (PWM)** - Designed for outdoor use, this is Renogy's only waterproof charge controller. It features an LCD screen and multiple LED indicators to display system operation information. Compatible with 7 different battery types (Lithium ion, Lithium Iron Phosphate, LTO, Gel, AGM, flooded, and calcium) on a 12V system.
- **Rover Model (MPPT)** - Designed for the most efficient and advanced solar power systems, this charge controller is compatible with flooded, gel, sealed, and Lithium Iron Phosphate battery banks. The 20A, 30A, and 40A models work with 12V or 24V systems, while the larger 60A and 100A models support 36V or 48V systems.



Battery Chargers

The Renogy DC-DC Battery Charger is a 12V charger available in 20A, 40A, or 60A options, designed for in-vehicle use to maintain battery charge while driving. With multi-stage charging, it efficiently charges your auxiliary battery, ensuring it reaches a reliable 100% capacity.

BATTERY CHARGERS



Renogy DC to DC On-Board Battery Chargers



Various Protections For Ultra Safety

- Over-temperature Protection
- Reverse Polarity Protection
- Over-voltage Protection

Compatible Multiple Battery Types

Unlimit your battery choice

- FLD FLOODED BATTERY
- GEL GEL BATTERY
- LI LITHIUM BATTERY
- AGM AGM BATTERY

Product Display

1. Negative DC Input Terminal
2. Positive DC Input Terminal
3. Ventilation Fans
1. Power LED
2. Fault LED
3. Dip Switches
4. RT311 Temperature Sensor Port (Model: RTSDCC, requires separate purchase)
5. D+ Ignition Terminal
6. LC Terminal - Current Limiting Terminal
7. Positive DC Output Terminal
8. Negative DC Output Terminal



Model No.	RNG-DCC1212-20	RNG-DCC1212-40	RNG-DCC1212-60
System Voltage	12V - 12V	12V - 12V	12V - 12V
Power Type	DC to DC	DC to DC	DC to DC
Maximum Output Current Rating	20A	40A	60A
Output Power	250W	500W	750W
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4)		
Operating Temperature Range	-20°C to 50°C		
Dimensions	211 x 175 x 68 mm	261 x 175 x 68 mm	311 x 175 x 68 mm
Weight	1.33 kg	1.88kg	2.40kg
Certification	CE,ROHS		
Warranty	1 Year	1 Year	1 Year

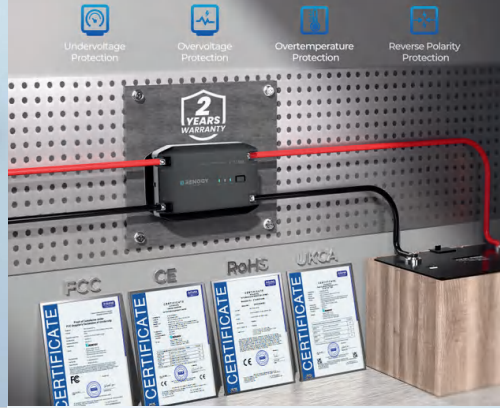
Protection @ Input	High-voltage, low-voltage, reverse-polarity, high-temperature, short-circuit		
Low Voltage Cut Off	8V		
Low Voltage Restart	10V		
High Voltage Shutdown	16V		
High Voltage Restart	15.5V		

12V-12V Onboard Battery Charger

Compatible with smart or traditional alternators for house battery charging



Comprehensive Protections & Certifications



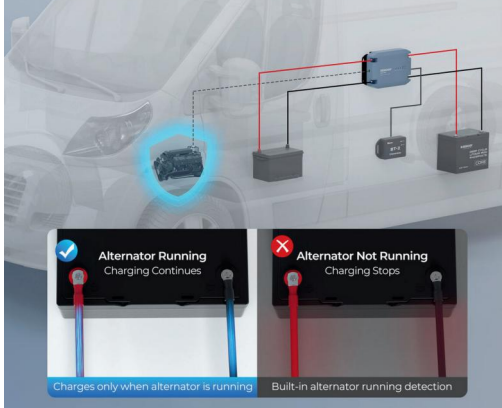
Compatible with Most Battery Types

Setting the battery type to User Mode allows you to customize parameters



Alternator Protected from Overload

Instant charging mode adjustment at startup for starter battery protection

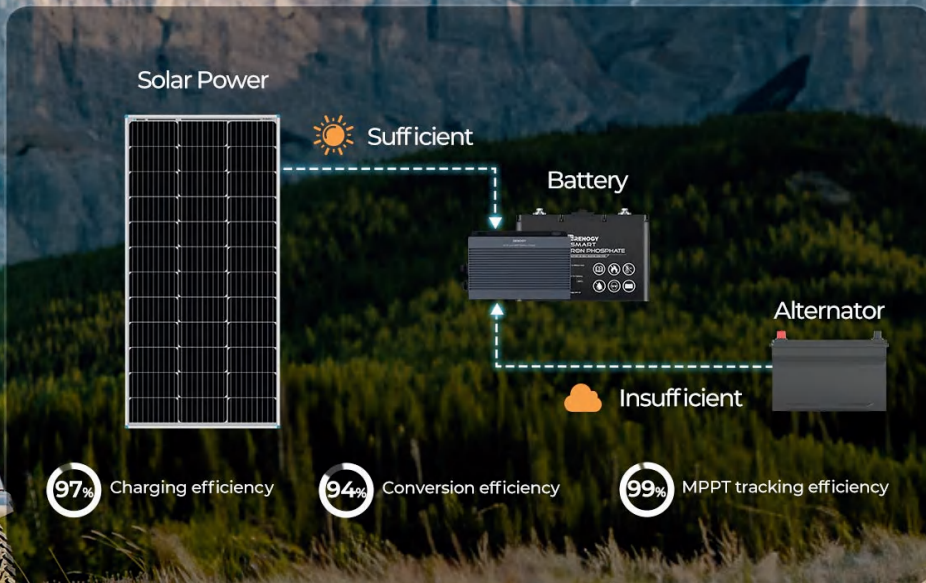


User-Friendly Layout

Safe spacing between input and output terminals minimizes short-circuit risks



Product Name	Renogy 12V 20A/40A DC to DC Battery Charger	
Model No.	NEW RBC20D1U	NEW RBC40D1U
System Voltage	12V - 12V	
Power Type	DC to DC	
Communications	RS485(Modbus) , Optional with BT-2	
Maximum Output Current Rating	20A	40A
Output Power	292W	584W
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4), User	
Operating Temperature Range	-25°C to 60°C	
Dimensions	236.5 x 131.5 x 60.5 mm	236.5 x 152.5 x 60.5 mm
Weight	1.5 kg	1.88 kg
Certification	CE,ROHS,FCC	CE,ROHS,FCC
Warranty	2 Year	2 Year
Protection	Reverse Polarity Protection/Overvoltage Protection/Over Discharge Protection/Overcurrent Protection/Over Temperature Protection	
Alternator Input Voltage	Alternator Input Voltage	
Temperature Compensation (Non-Lithium)	-3mV / °C/ 2V (Non-Lithium)	
Temperature Compensation (Lithium)	0mV / °C/ 2V; no compensation (Lithium)	
Grounding	Common Negative	



Compact Waterproof DC-DC Charger

Maximize your car space while ensuring uninterrupted power, even when submerged in water up to one meter deep

IP67

Trunk

Side Clearance

Engine Compartment

Monitor with Ease

Compatible with both built-in Bluetooth and wired CAN communication

Efficiency Boost
Manage energy usage efficiency

Energy Monitoring
Real-time data of your energy production and consumption

Remote Control
Manage your system settings remotely from anywhere

Compatible with Most Battery Types

Greater flexibility for system upgrades, reduces costs, and ensures adaptability to evolving technological changes

Lithium Battery

Lead-Acid Battery

GEL AGM SLD FLD



Model No.	RBC2125DS	RBC30D1S	RBC50D1S
System Voltage	12V/24V - 12V/24V	12V - 12V	12V - 12V
Power Type	DC to DC	DC to DC	DC to DC
Solar Input Voltage	50 VDC	25V	25V
Alternator Input	9-32 VDC	Traditional Alternator: 13.2-16 VDC Smart Alternator (Euro 6): 12-16 VDC	
Maximum Output Current Rating	50A	30A	50A
Output Power	720W	400W	660W
Communication Protocol	CAN (RV-C) Bluetooth	RS485(Modbus) , Optional with BT-2	
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4)		
Operating Temperature Range	-35°C to 80°C	-40°C to 80°C	-40°C to 80°C
Dimensions	178.2 x 121.5 x 37.5mm	234 x 146 x 77mm	234 x 146 x 77mm
Weight	1.86 kg	1.42kg	1.42kg
Certification	CE;RoHS;FCC Part 15 class B		
Warranty	3 Year	2 Year	2 Year

20A Lithium (LiFePO4) Portable Battery Charger

Automatically monitor and maintain the battery at full charge



- Plug and Play
- Intuitive LED
- Compact Size

FAST CHARGING

25Ah LiFePO4 Battery = Full Charged in 2.5 Hours

Battery is Charging
 Battery is fully charged

BORN FOR LITHIUM BATTERIES

Charging Voltage: **28.8V**
Charging Current: **≤10A**

- Battery Charger (9.17 x 4.25 x 2.52 in/233x108x6.4 mm)
- AC Charger Power Adapter Cable (47.24 in/1200 mm 18AWG)
- Alligator Clips Cable (23.32 in/600mm 14AWG)
- Ring Terminal Cable (23.62 in/600 mm 14AWG)
- Blade Automotive Fuse Holder (15 A)
- Blade Fuse (15 A)



Model No.	RBC10A2P	RBC20A1P	RACC35A1W
Input Voltage	100-240 V		180V to 240V AC (50/60 HZ)
Power Type	AC to DC		
Current Protections	250V 10A Fuse built in Input Circuit/Short Circuit/Over voltage/Under voltage Over temperature/Battery reverse connection		Over-current, over temperature, low temperature, output short-circuit, and output reverse connection protections
Communications	/		RS485(Modbus) , Optional with BT-2
Maximum Output Current Rating	10A	20A	35A
Output Voltage	28.8 V	14.4 V	9V to 17V
Communication	N/A	N/A	RS485
Compatible Batteries	Lithium-iron Phosphate ONLY		Activate Lithium Batteries AGM, Gel, Standard Lead Acid, Lithium (LiFePO4)
Operating Temperature Range	-30°C to 45°C		-20°C to 60°C
Enclosure Rating	IP20		IP32
Dimensions	233 x 108 x 64 mm	233 x 108 x 64 mm	228 x 160 x 72 mm
Weight	1.7kg	1.7kg	3 kg
Certification	UKCA,CE,CB,PSE		CE,RoHS,SAA
Warranty	2 Year	2 Year	3 Year

Renogy's Battery Chargers

FAQs

What is the DC-DC On-board Battery Charger?

- A DC-DC onboard battery charger converts DC power from a vehicle's electrical system into the optimal voltage and current to charge auxiliary batteries. Installed within the vehicle, it ensures efficient, controlled charging while the engine is running. These chargers are designed to enhance charging performance, prevent overcharging, and provide reliable power for applications like RVs, boats, and off-grid systems.

What type of alternator is this DC-DC on-board battery charger compatible with?

- This battery charger works seamlessly with both traditional and smart alternators. For smart alternators, which adjust charging output based on operating conditions, the charger must be connected via the Vehicle Ignition Port using the included IGN Signal Wire.

What types of battery does the charger support?

- This charger supports Gel, AGM, Flooded, and Lithium batteries. Ensure the correct battery type is selected after installation by referencing the Manual.



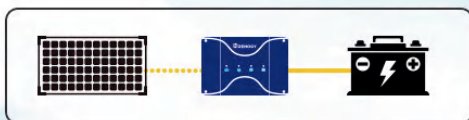
Installation Tips for Renogy DC-DC Battery Charger with MPPT

Avoid reversing polarity when connecting the battery, as it can cause injury and damage to the device. Ensure the battery terminals are clean, use cables with the appropriate cross-sections, and securely tighten nuts and bolts to prevent overheating caused by loose connections. Take care when tightening DC-DC terminals, as over-torquing can cause irreparable damage; do not exceed 16 N-m (3.3 ft-lb). Use the following cable colors for connections:

- Red: Positive connection
- Black: Negative connection

When connecting the battery charger to both the starting battery and solar panels simultaneously, the maximum input current is 15A/25A for each. If connected to only one DC input, the maximum input current increases to 30A/50A.

Built-in MPPT Maximizing the Power from Sun



Up to 99%

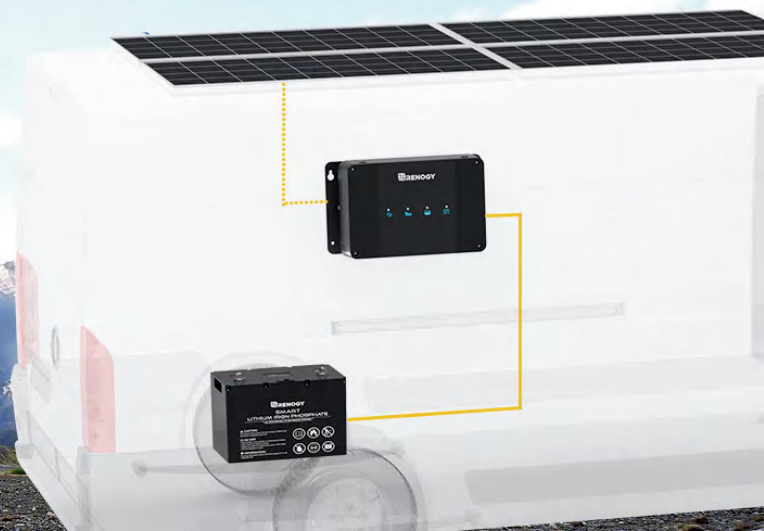
MPPT Tracking Efficiency

3-Phase Charging

Bulk, Boost, and Float Charge

1hrs Fully Charge

A 12V 100A Battery with 600W Solar Panels



Lithium Batteries

Renogy's lithium iron phosphate batteries are known for their high charge density, long lifespan, and deep-cycle capability while maintaining power. As the safest type of lithium battery, they offer 12-volt, 24-volt, and 48-volt options. These maintenance-free, durable batteries provide a smart, long-term investment for your energy needs.

BATTERIES



RENOGY
SMART
LITHIUM IRON PHOSPHATE
12V 100AH BATTERY W/ BMS (RECOMBINATION PROTECTED)

WARNING: Ensure that your charger is disconnected from the battery before use.

Do not short, puncture, or incinerate the battery. Do not touch the internal contacts. Do not expose the battery to temperatures above 122°F (50°C) when in series.

For more information, please visit www.renogy.com or call 1-800-451-7100.

Faster response to abnormal conditions when BMS/hardware fails

15s
Renogy 12V 100Ah Pro

40x
Faster*

600s
Other LiFePO4 Batteries with Conventional Passive Protection

*When the actual current is 135% of the rating

• With Active Backup Protection



»
Break the circuit



• Without Active Backup Protection



»
Current still flowing



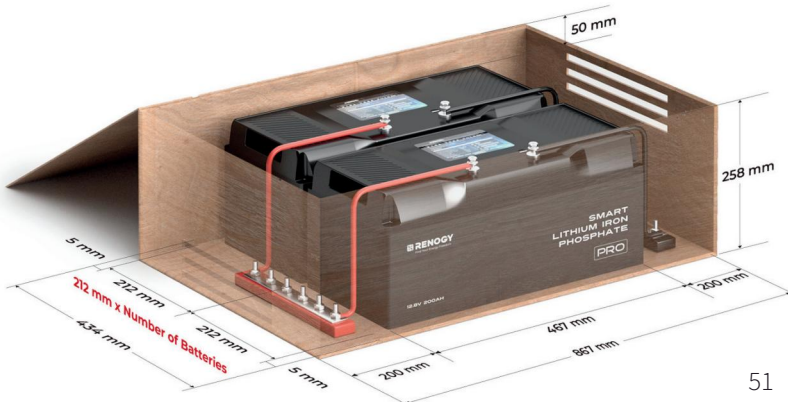
UL1973



FCC



CE



Dimensional Reference Guide

Before installing the battery, please note that you need to leave 5-10 cm for the top of the battery; the side with busbars needs to be left at least 20 cm.

PRO 12V 100AH : 268 x 193 x 205 mm

PRO 12V 200AH : 467 x 212 x 208 mm



PRO

Renogy Pro offers superior performance across the board. The Renogy Pro LiFePO4 battery comes in 12V 100Ah and 200Ah options, equipped with built-in Bluetooth for seamless monitoring through the Renogy DC Home App or Renogy ONE Core Display Monitor.

The All-New Heated Battery with Bluetooth

Upgrade to our latest 2-in-1 12V 200Ah LiFePO4 battery for less

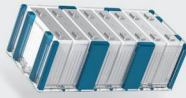
2-IN-1



Maximized Stability. Smooth Performance.

Vibration-proof design & mounting holes let your battery brave bumpy rides with ease

Vibration-Proof Design



Mounting Holes



*Please contact our customer support for details about battery fix brackets.
*We recommend a terminal torque of 10-12 N.m to tighten battery terminals in case of loose connections.

Double Active Safety System

Safety reaches a new level with advanced battery protection



60+ BMS Protection



Active Backup Protection



NEW



NEW



Model No.	RBT12100LFP-BT	RBT12200LFP-BT
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Nominal Voltage	12.8V	
Rated Capacity	100Ah (0.5C, 25°C)	200Ah (0.5C, 25°C)
Communications	Bluetooth	
Cycle Life (0.5C, 25°C)	5000 Cycles (80% DOD, 80% EOL)	5000 Cycles (80% DOD, 80% EOL)
Maximum Charge Current	100A	200A
Peak Discharge Current	245A@30s	270A@30s
Flame Retardancy	UL94 V-0	
Charge Temperature Range	-20°C to 55°C	
Discharge Temperature Range	-20°C to 60°C	
Connection Method	Parallel (Up to 8)	Parallel (Up to 8)
Housing Material	PC/ABS	PC/ABS
Dimensions	268 x 193 x 205 mm	467 x 212 x 208 mm
Weight	12.2 kg	23 kg
Certification	MSDS, UN38.3, FCC, CE, PSE, and UKCA	
Warranty	7 Year	7 Year

CORE

Renogy Core offers a cost-effective solution with lasting performance. Available in 12V and 24V options (100Ah, 200Ah, 300Ah), it supports various connections for consistent power.

- Series up to 4, Parallel up to 8
- Series & Parallel (4P4S)

Safer Charging in the Cold

The 200A BMS automatically prevents charging below 32°F/0°C

Low-Temp Cut-Off



Configure Your Power Plant. Your Way.

Open up new possibilities of off-grid power in the way you like?

4P4S

48V (51.2V) 400Ah
20.48kWh



4S

48V (51.2V) 100Ah
5.12kWh



8P

12V (12.8V) 800Ah
10.24kWh



2. Please select right amount of batteries & proper connection based on applications for system set-up.

Advanced BMS for Enhanced Battery Protection

Stay Secure in Any Weather with EV-Grade Cells and BMS Protection



Model No.	RBT12100LFP-M	RBT12200LFP	RBT12300LFP-M
Battery Type	Lithium Iron Phosphate		
Nominal Voltage	12.8V		
Rated Capacity	100Ah (0.5C, 25°C)	200Ah (0.5C, 25°C)	300Ah (0.5C, 25°C)
Cycle Life (0.5C, 25°C)	5000 Cycles (80% DOD, 80% EOL)		
Maximum Charge Current	100A	100A	150A
Maximum Discharge Current	100A	200A	200A
Peak Discharge Current	300A @5s	400A@10s	380A@10s
Protection Rating	IP65		
Charge Temperature Range	0°C to 55°C	0°C to 55°C	0°C to 60°C
Discharge Temperature Range	-20°C to 55°C	-20°C to 60°C	-20°C to 65°C
Storage Temperature Range	-25°C to 65°C	-25°C to 65°C	-20°C to 60°C
Connection Method	Series (Up to 4); Parallel (Up to 8); Series & Parallel (4P4S)		
Housing Material	ABS		
Dimensions	229 x 138 x 213 mm	522 x 240 x 219 mm	384 x 194 x 253mm
Weight	9.9 kg	21.45 kg	25 kg
Certification	MSDS, UN38.3, FCC, CE, PSE, and UKCA		
Warranty	5 Year		



Introducing the Renogy Slim-Solid-State Battery (Slim-SSB), a groundbreaking Super Slim Battery that redefines the charging experience. With its ultra-slim 61mm profile, this innovative battery blends sleek design with exceptional functionality, setting a new benchmark for performance and style.



ONLY 61MM THICK
SLEEK AND POWERFUL.



-20°C SAFE CHARGING



RELIABILITY AND SAFETY OF
SOLID-STATE BATTERY



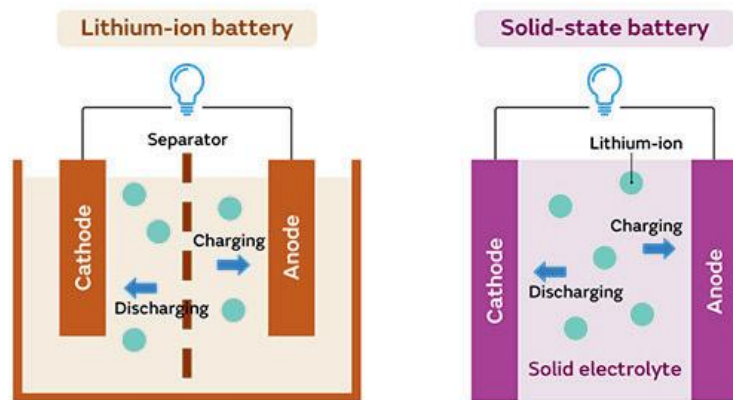
FAST CHARGING
LONGER LIFESPANS

Model No.	RBT12104LFP-SSL-BT
Smart Functions	Bluetooth, CAN2.0
Nominal Voltage	12.8V
Rated Capacity	104AH
Cycle Life (0.5C, 25°C)	Over 6000 Cycles 25°C 0.5C/0.5C Charge/Discharge 80%DOD,80% EOL
Maximum Continuous Charge Current	100A
Maximum Continuous Discharge Current	200A
Peak Discharge Current	290A@30S
Charge Temperature Range	-10°C to 55°C (-10°C to 0°C, 0.1C)
Discharge Temperature Range	-20°C to 60°C
Storage Temperature Range	-20°C to 60°C
Protection	IP67
Connection Method	Series and Parallel (Up to 4)
Battery Enclosure Materials	Aluminum Alloy
Dimensions	579 x 290 x 61 mm
Weight	12.8 kg
Certification	MSDS, UN38.3, FCC, CE, PSE, RoHS, RCM, IC, and UKCA
Warranty	8 Year

SOLID-STATE BATTERIES

What is Solid-State Battery?

Solid-state batteries are a type of battery technology that uses solid electrodes and a solid electrolyte, instead of the liquid or gel electrolytes found in traditional lithium-ion or lead-acid batteries. This design fundamentally changes how the battery operates and offers several advantages in terms of safety, energy density, and longevity.



8 Significant Benefits over Traditional Lithium-ion Batteries

Higher Energy Density: They store more energy in the same space, resulting in longer-lasting devices.

Improved Safety: Using a solid electrolyte reduces the risk of overheating and fires, making them safer.

Longer Lifespan: These batteries degrade less over time, supporting more charge cycles and a longer lifespan.

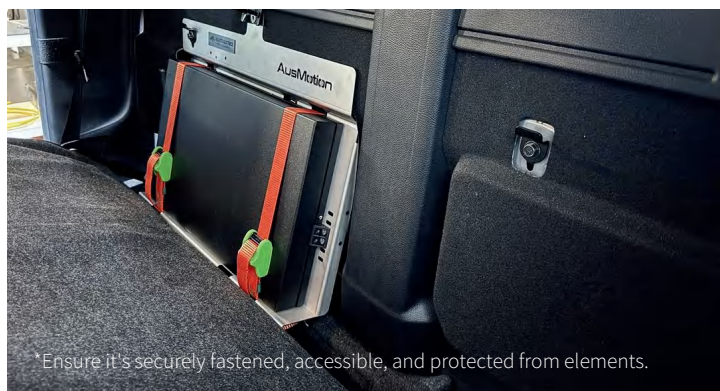
Faster Charging: They potentially charge quicker, which is particularly beneficial for off-grid trips.

Wider Temperature Range: They perform efficiently in various temperatures, enhancing reliability.

Smaller Size and Weight: Their efficiency allows for more compact and lightweight designs.

Environmental Benefits: They may have a lower environmental impact and better recycling potential.

Design Flexibility: The solid electrolyte enables innovative battery designs and improved performance.



*Ensure it's securely fastened, accessible, and protected from elements.

For installing a super slim battery in your off-road truck and RV

Under the Hood: If space allows, install it in the engine bay.

Under/Behind Seats: Use under-seat space for a secure, compact fit.

Truck Bed: Place it in a secure enclosure in the truck bed.

Storage Compartments: Utilize under-floor or side storage areas.

Rear Cargo Area: Securely mount it in the rear cargo space.

Swapping your AGM battery for a Slim-SSB Lithium Battery depends on your charging setup. Lithium batteries have unique charging requirements, so compatibility is crucial to prevent damage or safety risks. Before switching, verify that your DC-DC charger, solar charge controller, and AC charger are compatible with lithium batteries. Consult the equipment manuals to ensure they support the correct lithium charging profiles for a safe transition.

DIN TYPE UNDER-SEAT



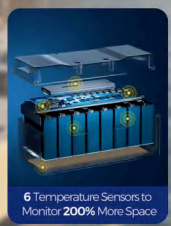
Introducing our high-performance DIN-type lithium batteries, expertly designed for caravans and motorhomes. Fully compatible with the popular Ducato chassis and under-seat installations, Renogy Smart Pro LiFePO4 batteries incorporate advanced features such as Bluetooth connectivity, Canbus integration, and a built-in heating system, ensuring reliable performance even in low temperatures.

Power to Beat the Cold

<ul style="list-style-type: none"> ✓ Auto-heating below 5°C ✓ Self-Heating with Overheat Protection ✓ No extra installation 	VS	<ul style="list-style-type: none"> ✗ Manual control needed ✗ Heat barely reaches the cells ✗ Installation required
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And Survive the Heat



Smart Sleep Mode: Designed to Extend Battery Life and Enhance Safety

Undervoltage Sleep Mode: If the voltage fails to recover within 5 minutes after undervoltage protection, the BMS enters low-power mode, and the terminals show less than 6V. Charging is required to reactivate.

Normal Sleep Mode: If inactive for 24 hours, the BMS enters sleep mode, maintaining normal voltage but disabling the Bluetooth signal. Charging or discharging will reactivate the system and restore Bluetooth connections.



NEW

Model No.	RBT12135LFP-SHBT
Battery Type	Lithium Iron Phosphate
Smart Functions	Seal-heating Function, Bluetooth
Nominal Voltage	12.8V
Rated Capacity	135Ah
Cycle Life (0.5C, 25°C)	Over 4000 Cycles 25°C 0.5C/0.5C Charge/Discharge 80%DOD,80% EOL
Maximum Charge Current	135A
Maximum Discharge Current	135A
Peak Discharge Current	350A @3S
Charge Temperature Range	-20°C to 55°C
Discharge Temperature Range	-20°C to 50°C
Storage Temperature Range	-25°C to 65°C
Protection	IP65
Connection Method	Series (Up to 4); Parallel (Up to 8)
Battery Enclosure Materials	ABS (Acrylonitrile Butadiene Styrene)
Dimensions	355 x 175 x 190 mm
Weight	14.5kg
Certification	FCC, UKCA, CE, PSE, IC, MIC, ROHS, MSDS, UN38.3
Warranty	7 Year

DIN TYPE UNDER-SEAT

Faster response to abnormal conditions when BMS/hardware fails

15s
Renogy 12V 100Ah Pro

**40x
Faster***

600s
Other LiFePO4 Batteries with Conventional Passive Protection

*When the actual current is 135% of the rating

• With Active Backup Protection



Break the circuit



• Without Active Backup Protection



Current still flowing



The All-New Heated Battery with Bluetooth

Upgrade to our latest 2-in-1 12V 200Ah LiFePO4 battery for less

2-IN-1



Configure Your Power Plant. Your Way.

Open up new possibilities of off-grid power in the way you like ²

4P4S

48V (51.2V) 400Ah
20.48kWh



4S

48V (51.2V) 100Ah
5.12kWh



8P

12V (12.8V) 800Ah
10.24kWh



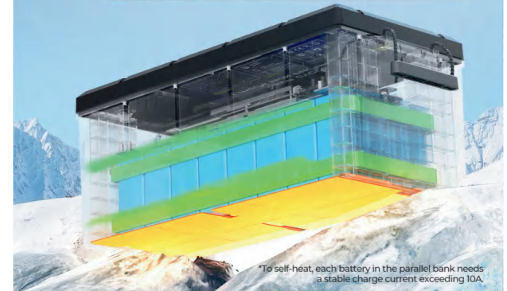
2. Please select right amount of batteries & proper connection based on applications for system set-up.

2X Faster Self-Heating

Extend the runtime with extra warmth for low-temp conditions

Renogy **From -4°F to 32°F < 40 min** **2X Higher Heating Rate**

Others **From -4°F to 32°F > 1 hr**



To self-heat, each battery in the parallel bank needs a stable charge current exceeding 10A.

NEW



NEW



Model No.	RBT12200LFP-SHBT	RBT12500LFP-SHBT
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Smart Functions	Seal-heating Function, Bluetooth Build-in	
Nominal Voltage	12.8V	
Rated Capacity	200Ah	500Ah
Cycle Life (0.5C, 25°C)	Over 4000 Cycles	Over 3500 Cycles
Maximum Charge Current	200A	200A
Maximum Discharge Current	200A	250A
Peak Discharge Current	380A(MAX 10S)	300A(MAX 10S)
Charge Temperature Range	-20°C to 55°C	-20°C to 55°C
Discharge Temperature Range	-20°C to 50°C	-20°C to 60°C
Storage Temperature Range	-25°C to 65°C	-20°C to 45°C
Protection	IP65	
Connection Method	Series (Up to 4); Parallel (Up to 8)	Parallel (Up to 8)
Battery Enclosure Materials	SPCC (Steel Plate Cold Commercial)	
Dimensions	330(365) x 225 x 190 mm	355*350*198 mm
Weight	23Kg	50Kg
Certification	FCC, UKCA, CE, PSE, IC, MIC, ROHS, MSDS, UN38.3	
Warranty	7 Year	

Inverters and Inverter Chargers

Renogy leads the industry with advanced inverter and inverter charger solutions. Our products offer premium features, including power-saving mode, optional connectivity to monitoring devices like the BT-2, and automatic power transfer capabilities.

INVERTERS



12V P2 Series Pure Sine Wave Inverter



Superior Safety and Reliability
6 electronic protections for your delicate appliances

- Over-temperature protection
- Short circuit indication
- GFCI protection
- Under-voltage protection
- Over-voltage protection
- Over-load protection

Multiple Occasions with Battery Adaptability
Compatible with Various Battery Types

11.7 lbs

LI SLD GEL FLD AGM



Model No.	R-INVT-PUH1-101235	R-INVT-PUH1-201235	R-INVT-PUH1-301235
Power Rating	1000W	2000W	3000W
Surge Power (Peak Power)	2000W	4000W	6000W
DC Input Voltage	12V DC		
AC Output Voltage	220-240V AC		
AC Output Frequency (Nominal)	50 HZ		
Output Wave Form	Pure Sine Wave		
Low Voltage Shutdown	10VDC		
Low Voltage Protection	Recover from low voltage protection		
High Voltage Shutdown	16.3VDC		
Battery Supply & AC Main Transfer Time	Within 50ms	Within 50ms	Within 50ms
Working Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
Dimensions	342*173*76 mm	442*220*92 mm	482*220*92 mm
Weight	2.6kg	4.8Kg	6.4Kg
Certification	CE		
Warranty	1 Year		



Your Two-in-One Solution

Power and Charge with One Device



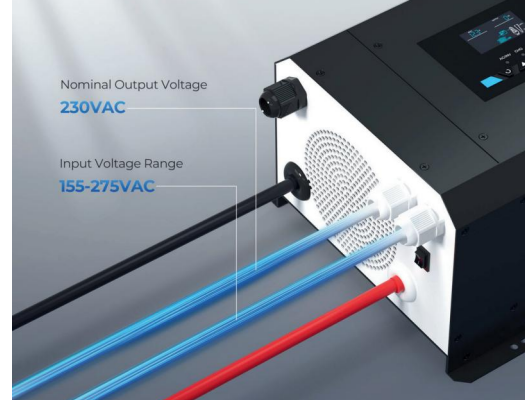
5 Built-in Safety Protections

Optimally and Automatically Charge to 100%



Wild Range of AC Input

Adapt to Various Regions and Power Stations



Model No.	R-INVT-PCL1-20123S	R-INVT-PCL1-30123S
Power Rating	2000W	3000W
Surge Power (Peak Power)	4000W	6000W
DC Input Voltage	12V DC	
AC Output Voltage	230VAC (200to240VAC, 10V interval)	
AC Output Frequency (Nominal)	50HZ	
Output Wave Form	Pure Sine Wave	
AC Input Voltage	230 VAC	
Input Frequency Range	40Hz - 70Hz	
Output Current	5-65A; configurable, 5A intervals	5-75A; configurable, 5A intervals
No Load Power Consumption	Normal: <20W; Power Saving: <15W	Normal: <30W; Power Saving: <15W
Working Temperature	0°C to 40°C	
Dimensions	510 x 285 x 193 mm	510 x 285 x 193 mm
Weight	23.2 Kg	28.8 Kg
Certification	CE	
Warranty	1 Year	

Renogy's Inverter and Inverter Chargers

FAQs

What is the difference between an inverter and an inverter charger?

- An inverter converts DC (direct current) power from a battery into AC (alternating current) power for use in household appliances or electronic devices.
- An inverter charger not only converts DC to AC but also has built-in charging capabilities, allowing it to recharge batteries from an AC power source like a generator or grid power.

What is the power-saving mode on Renogy inverters?

- The power-saving mode is a feature that allows the inverter to consume minimal power when there is no load connected, thus conserving energy and improving overall efficiency.

Can I monitor my Renogy inverter or inverter charger remotely?

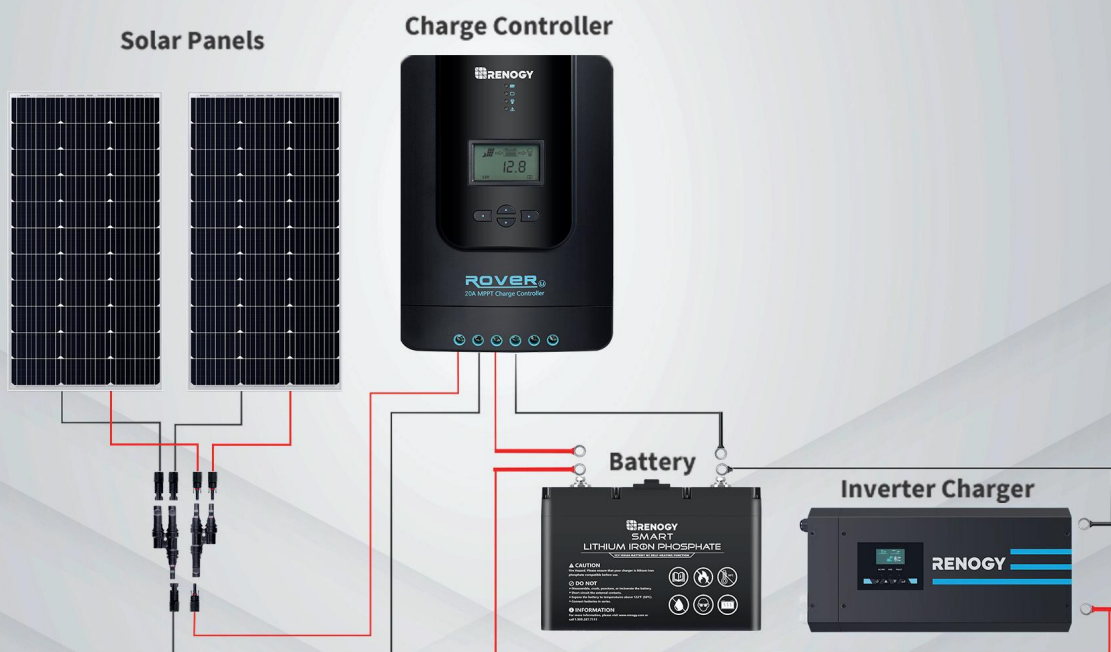
- Yes, Renogy's inverters and inverter chargers have optional connectivity to monitoring devices like the BT-2, which allows you to monitor and control your system remotely via a smartphone app.

What is automatic power transfer, and how does it work?

- Automatic power transfer is a feature found in some Renogy inverter chargers that automatically switches between different power sources (such as solar, battery, and grid power) based on priority settings and availability of power, ensuring continuous and reliable power supply.

What size inverter should I buy?

- **Determining Power Needs:** Renogy inverters are rated by wattage capacity, indicating the maximum load they can handle. For example, if you have a 500W fridge and an 800W air conditioner totaling 1300W, you'll need an inverter rated higher than 1300W. Renogy offers 2000W and 3000W inverters to meet your power requirements.
- **Checking Battery Voltage:** The inverter's DC voltage rating must match your battery bank. For a 12V battery bank, use an inverter compatible with 12V DC input. Renogy offers inverters for various battery voltages, ensuring seamless compatibility.
- **Sizing Installation Spaces:** Ensure your installation space provides adequate ventilation and safety. While Renogy inverters are compact and suitable for various settings, it's important to verify compatibility with your installation space beforehand.



Complete Your Off-Grid System with Renogy Accessories



The **Renogy ANL fuse protects** your system from overcurrent, safeguarding your charge controller, battery, inverter, and wiring. Made from high-quality alloy and brass copper with a clear, non-conductive cover, it ensures easy installation and enhances system longevity.

Model No. RNG-SET-ANL

Available in 20A/30A/40A/60A/80A/100A/200A/300A/400A

Solar Y Branch Connectors are designed for parallel wiring of solar panels. Sold as a pair, they ensure your solar panel voltage matches your battery size. Compatible exclusively with solar connectors, the set includes one male (MMF) and one female (FFM) connector for secure connections.

Model No. RNG-CNCT-MC4Y



The **Solar Waterproof In-Line Fuse Holder with a pre-installed fuse** offers reliable overcurrent protection for solar systems. Its IP67-rated waterproof casing and durable, heat-resistant materials ensure long-lasting outdoor performance.

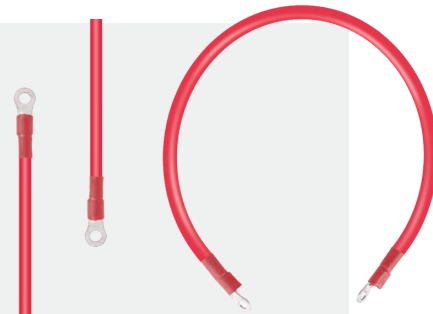
Model No. RNG-CNCT-FUSE

Available in 10A / 15A / 20A / 30A

The Renogy fuse cable easily connects your ANL fuse to your batteries. Equipped with battery rings on both ends, it allows for effortless connections—one to your battery and the other to your ANL fuse. Available in three gauge sizes to perfectly match your system needs.

Model No. RNG-ANLFUSECB

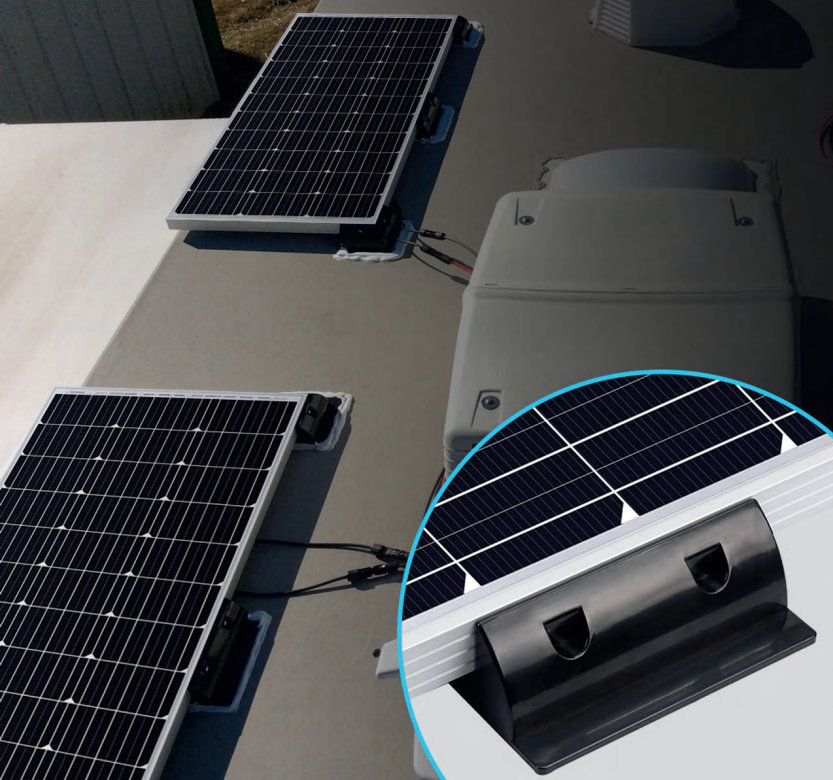
Available in 4AWG, 6AWG, 8AWG, 10AWG, 2/0AWG, 4/0AWG



The **Solar Adaptor Kit** offers a reliable and efficient connection between your solar panel and charge controller, designed to withstand harsh outdoor conditions. Featuring IP65 protection, it resists water and dust, while the tinned copper wire conductor ensures excellent conductivity and corrosion resistance. Rated for 600/1000V and operational temperatures from -40°C to 85°C, this kit is built for durability and safety in a variety of environments.

Model No. RNG-AK-EU

Available in 12AWG and 10 AWG in 3m, 0.23m, 3m, 6m, 9m, 12m.



Corner Mounting Brackets

Model No. RNG-MTS-CB

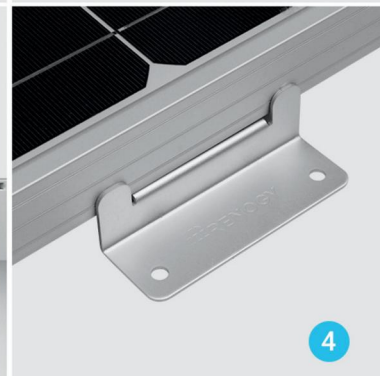
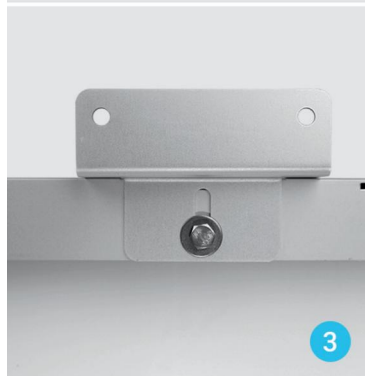
- UV-resistant ABS Plastic
- Drill-free mounting.
- Compatible with virtually all aluminum-framed solar panels.
- Side Bracket Dimensions (l x w x h) 178 x 117 x 58 mm
- Corner Bracket Dimensions (l x w x h) 150 x 150 x 58 mm



Z Mounting Brackets

Model No. RNG-MTS-ZB

- Aluminum corrosion-free construction.
- Pre-assembled with bolts and washers.
- Ideal for uneven or irregular surfaces



Tilt Mounting Brackets

Model No. RNG-MTS-TMB

- Easily set the mounting angle from 0 to 90° in approximately 5° increments.
- Constructed with a corrosion-resistant aluminum alloy
- Ideal for installation on the roof of an RV or any flat surface
- The 28-inch TMB bracket is adaptable to Renogy solar panels up to 220W.



For more helpful information, please visit the Renogy website and Learning Center.

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<https://eu.renogy.com>

<https://uk.renogy.com>

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Business Website

<https://pro.renogy.com/eu>

<https://pro.renogy.com/uk>

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<https://www.renogy.com/learning-center>



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Product specifications, features, and appearances are subject to change without prior notice as part of ongoing product improvements and updates.