



OFF-GRID POWER SOLUTIONS

RV, CARAVAN AND CAMPER.

RNG International Inc.
5050 S Archibald Ave,
Ontario, California 91762

RNG AU PTY Limited
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adventure



RENOGY solutions stand out as the most comprehensive off-grid solutions in their category. Systems are designed with user-friendly installation in mind to provide a hassle-free experience and shorter installation times.



RENOGY®

Superior Energy Solutions™

INDUSTRY LEADER IN OFF-GRID POWER SINCE 2010

Established in 2010, Renogy is a global leader in off-grid solutions, headquartered in Los Angeles, California, with 11 operations centers worldwide. Collaborating with RV manufacturers, dealers, and Renogy Certified Installers, Renogy provides innovative off-grid solutions globally.

RENOGY solutions are equipped with advanced safety features, protocols, full UL, CE, and international compliance, and integrated system monitoring, ensuring protection across all system components. Backed by our dedicated global and local customer support and certified dealer training, RENOXY stands as your go-to off-grid power department.

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14 YEARS

Global Innovation in Off-Grid Energy

11 GLOBAL OPERATIONS

Global R&D, manufacturing, and Customer Support sites in United States, Australia, China, Japan, Europe, and the Philippines.

TOTAL OFF-GRID SOLUTIONS

Solar Panels, Batteries, Chargers, Inverters, and Monitors



RENOGY
Find Your Energy Freedom™

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Find Your Energy Freedom™



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ACCESSORIES	
Check out Renogy's Partner Portal for a wide range of accessories to optimize your solar system. From fuses and mounts to Extension Cables and Inverter Cables, we have everything you need to complete your setup.	



Superior Off-Grid Energy Solutions

Introducing RENOXY REGO, the cutting-edge Off-Grid Solutions that redefine the standards in the 12V off-grid category. Our solutions are meticulously crafted for easy installation and incorporate advanced safety features, ensuring round-the-clock peace of mind.

Rugged Design For **Mobile Applications**

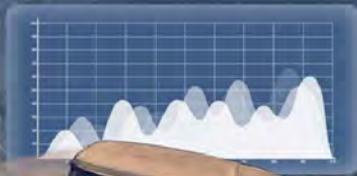
Extensive testing ensures stable performance under harsh vibration conditions



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.



International **Certifications**

Ensuring peace of mind in its long-term usage



IEC62619/62620



UN38.3



UL1973



FCC Certification



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, thereby guaranteeing optimal performance for the batteries.

International **Certifications**

Renogy products have advanced safety features, protocols, full UL, CE, and international compliance, and integrated system monitoring to ensure protection across all components.

COMFORT ANYWHERE WITH RENOGY SMART OFF-GRID SOLUTION

FULL OFF-GRID SOLUTIONS

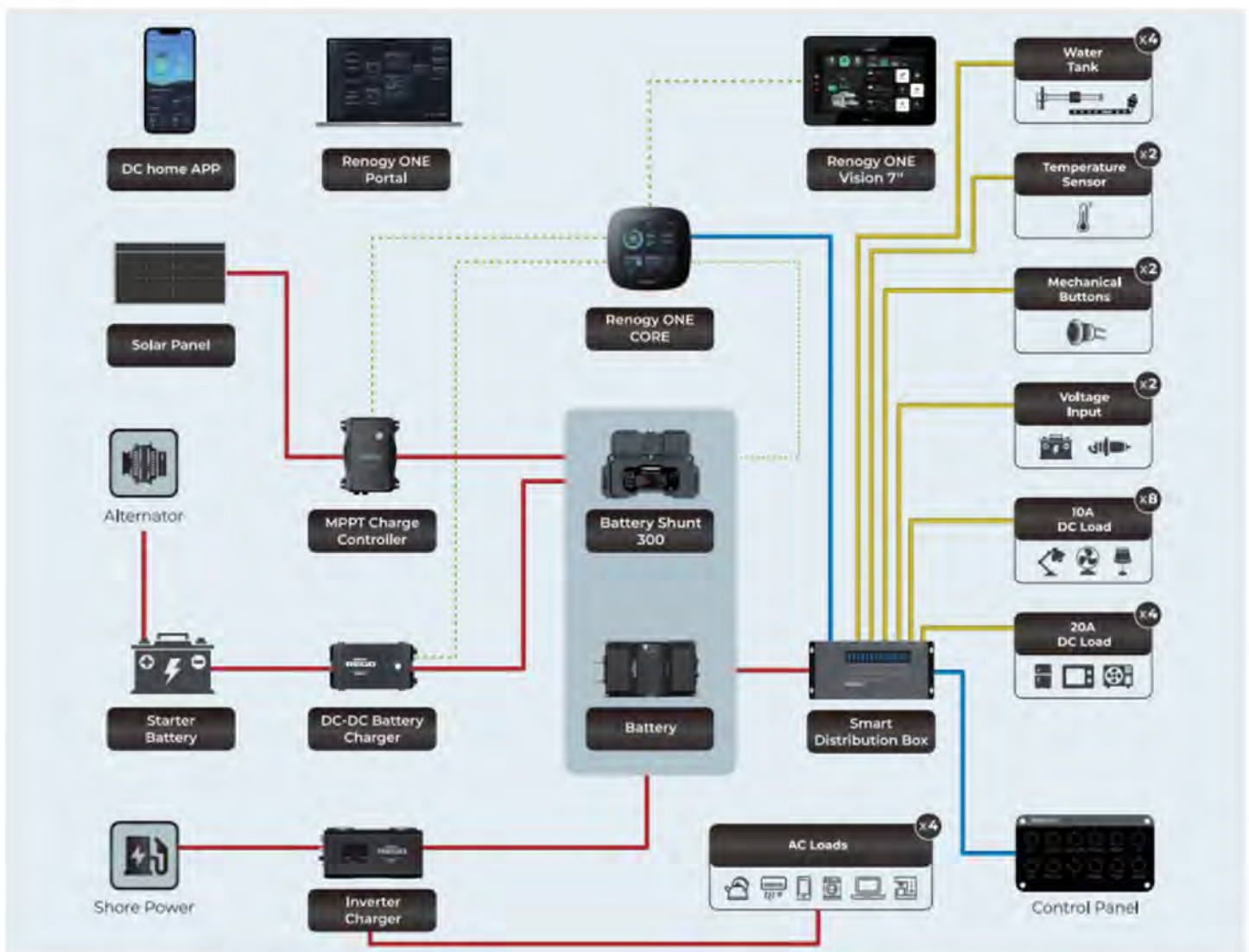
Renogy REGO solution includes all the components necessary for a true off-grid power system, optimizing the system performance and amplifying the user experience.

SIMPLIFIED DESIGN

Renogy REGO is designed for user-friendly installation, providing a hassle-free experience and shorter installation times. With dedicated local customer support and certified RV dealer training, RENOGY serves as your go-to Off-Grid power department.

ENHANCED SAFETY

RENOGY solutions are equipped with advanced safety features, protocols, full UL compliance, and integrated system monitoring, ensuring protection across all system components, and providing users with 24/7 peace of mind.





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

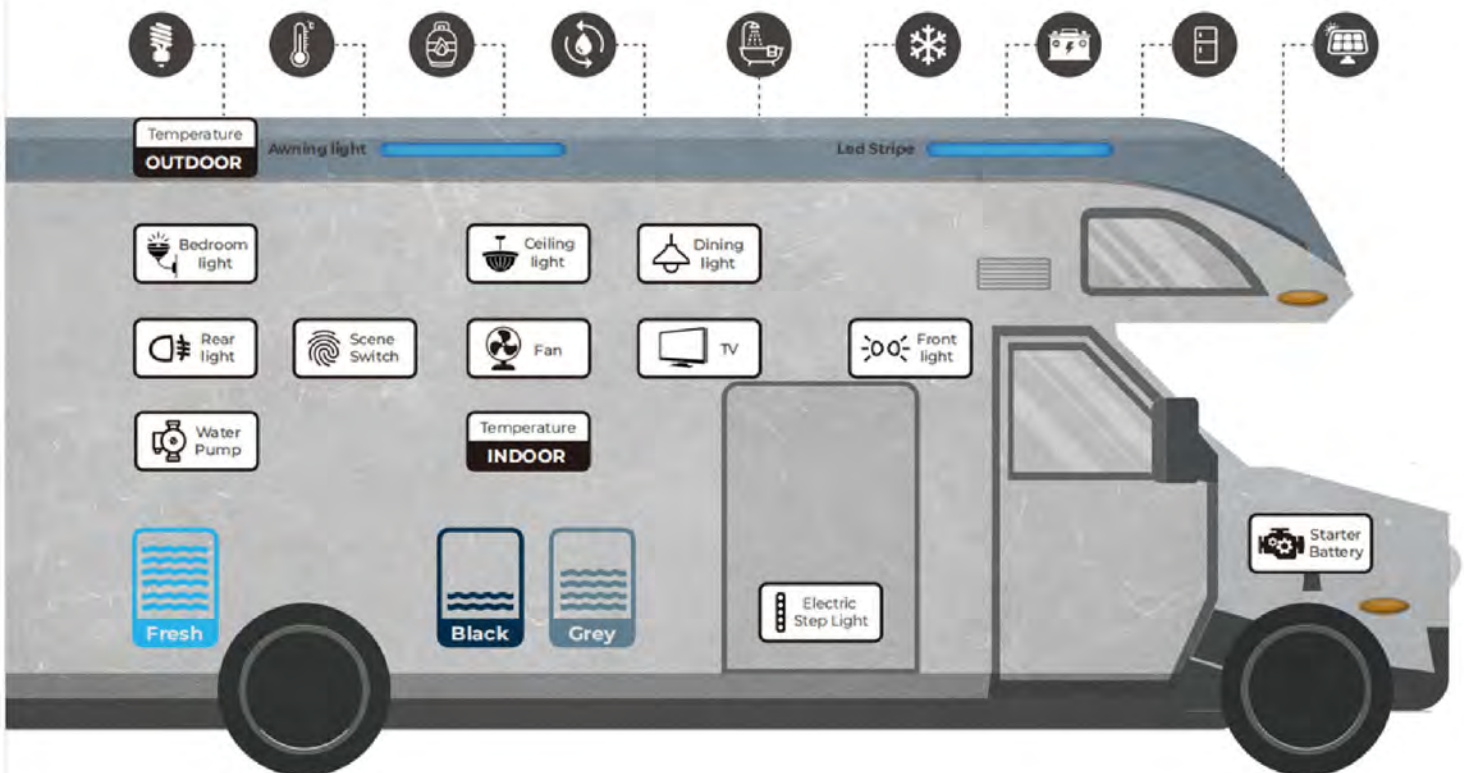
Smart Distribution Box (SKU: RSHCB-C02P-G1)

- Specifically designed for all type of RVs.
- Compatibility with RV-C communication interfaces.
- Seamless integration with Renogy 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.



RE-IMAGINE ENERGY INDEPENDENCE FOR LIFE ON-THE-GO



RENOGY REGO



MPPT CHARGE CONTROLLER - 12V 60A

- RENOGY's innovative MPPT technology delivers up to 99% tracking efficiency and 98% peak conversion efficiency.
- Utilizes four-stage charging (Bulk, Boost, Float, EQU) for high efficiency and prolonged battery lifespan.

DC-DC BATTERY CHARGER - 12V 60A

- Exclusive Bidirectional Charging
- REGO chargers feature comprehensive protection including Overvoltage, Overtemperature, and Reverse Polarity protection on inputs and outputs for safe operation.



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 all-round safety.
- Vibration-resistant with aluminum casing.
- 6000 cycles ensure lasting performance.



COMBINER BOX - 500A

- Tin-plated copper busbars ensure long-term performance.
- Redefines simplicity in installation and maintenance.
- Lightweight design with generous internal space.
- Durable enclosure for secure connections.
- Hassle-free installation of highly secure fuses.

Renogy REGO components are fully compatible not only with Renogy Pro and Core systems but also with off-grid power systems from other brands.

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	Built-in BT
Charge Temperature Range	0 ~ 55°C
Discharge Temperature Range	-20 ~ 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



Model No.	RCC60REGO	RBC1260DO-12B
System Voltage	12V - 12V	12V - 12V
Power Type	DC to DC	DC to DC
Solar Input Voltage	100V	/
Alternator Input	/	Traditional Alternator: 13.5-16VDC Smart Alternator (Euro 6): 12.5-16VDC
Maximum Output Current Rating	60A	60A
Rated Max Charge Power	800W	800 W
Communication Protocol	Built-in BT, CAN	Modbus ; RV-C
Compatible Batteries	AGM, Gel, Standard Lead Acid, Lithium (LiFePO4), User Mode	
Operating Temperature Range	-20 °C - 60°C	-20 °C - 60°C
Dimensions	239.4 x 187 x 108.8 mm	353.53 X 212.75 X 102.21mm
Weight	2.30 kg	3.12kg
Certification	FCC, CE and RoHs, UL1741,CAN/CSA-C22.2 No.107.1	
Warranty	5 Year	5 Year

REGO 12V 3000W Pure Sine Wave Inverter Charger w/ LCD Display



Model No.	RIV1230RCL-1SS
Power Rating	3000W
Surge Power (Peak Power)	9000W
DC Input Voltage	12V DC
AC Output Voltage	230VAC (200~240VAC, 5V interval)
AC Output Frequency (Nominal)	50/60 Hz $\pm$ 0.1%
Output Wave Form	Pure Sine Wave
AC Input Voltage	230 VAC
Input Frequency Range	50/60 Hz
Output Current	5-75A configurable, 5A intervals
Transfer Time	~ 10ms
Transfer Rating	30A Automatic Transfer Switch (30A Continuous, 40A Maximum)
No Load Current Draw	Normal: <30W Power Saving: <15W
Working Temperature	-20~40°C
Dimensions	510 x 285 x 193 mm
Weight	28.8 Kg
Certification	UL, FCC Part 15 Class A , CSA-C22.2 No 107.1
Warranty	5 Year

MAXIMUM PROTECTION BUILT-IN
Integrated circuit breakers provide the highest degree of protection

- Overload Protection
- Overcharge Protection
- Thermal Overcharge Protection
- Short Circuit Protection
- Over Temperature Protection

Not Only Saving, But Also Empowering
Save Over 30% Installation Footprint and 6 Cables

-30%
Footprint

-75%
Cables reduced to 1

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

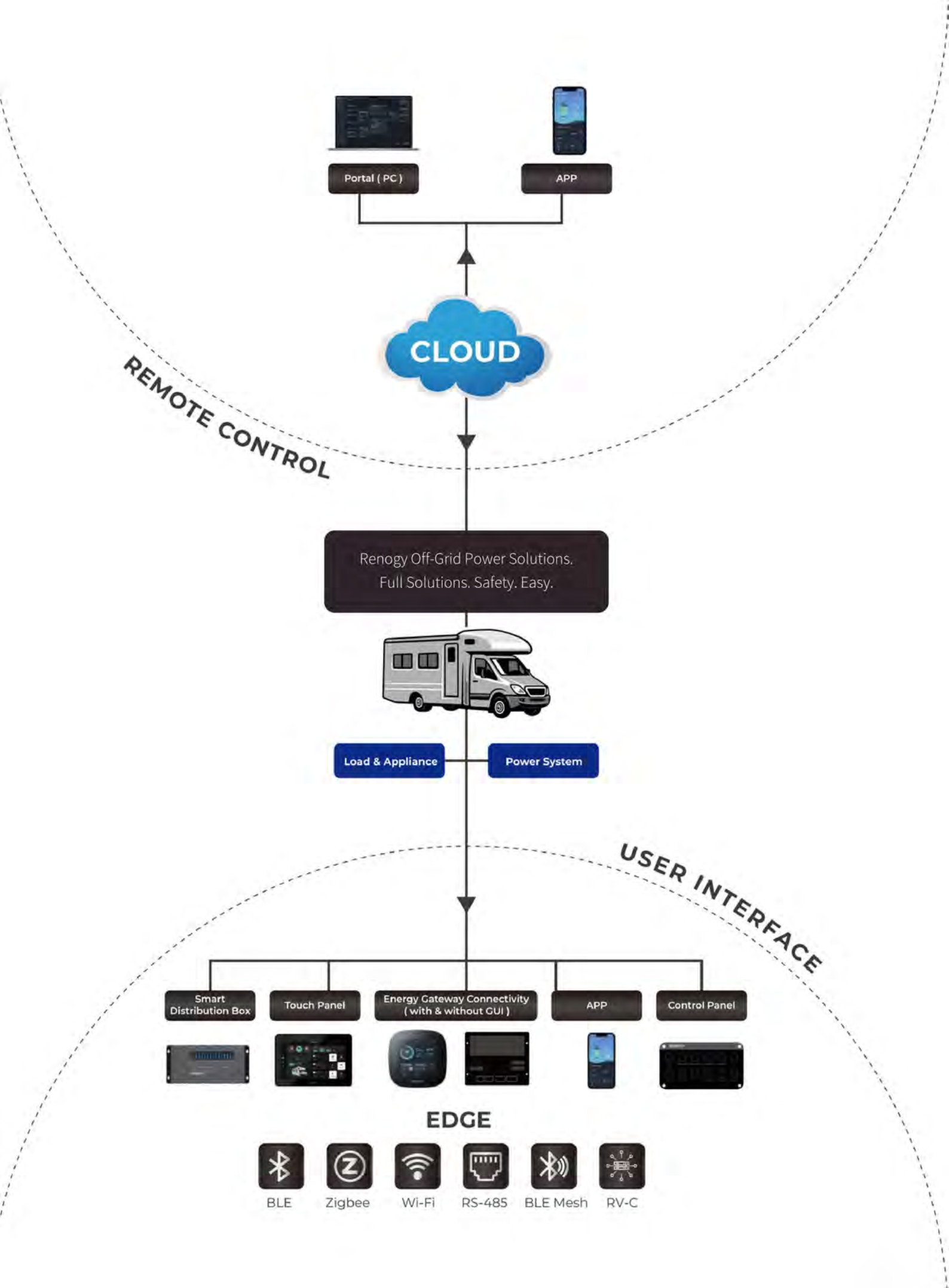
Centralized Safeguarding
MRBF fuse attaches directly to the positive terminal's copper plate for circuit protection



Power Management

Effortlessly monitor Renogy off-grid power systems from anywhere in the world. Seamlessly navigate through the touch panel, DC Home App, and Renogy ONE Portal for a comprehensive energy management experience.

*Customization is available for RV OEMs.



Bluetooth Module for Renogy Products w/ RS485 Port

Model No.	RCM-BT2	RCM-BT1
Communication Protocol	RS485	RS232
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	67.3 X 35 X 14 mm
Warranty	1 Year	1 Year



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

Model No.	RSHGWSN-W02W
Communication Protocol	Wi-Fi (IEEE 802.11b/g/n 2.4 GHz) Bluetooth LE and Bluetooth Mesh Zigbee 3.0 (IEEE 802.15.4) RS-485
Leveling Range and Accuracy	±89°, 0.1°
Input Voltage	8-60 VDC (5 VDC for USB Type-C)
Operating Temperature	-20°C to 70°C
Installation	Flush mount or place on a table
Touch Screen	4 inches (480 x 480p)
Weight	128g
Dimensions	106 x 106 x 26.6 mm
Warranty	2 Year



Compatible Devices

Check some of the most popular devices that can work with Renogy ONE Core & Smart Shunt

Renogy ONE Core

Devices with Built-in Bluetooth

Renogy ONE Core - Smart Shunt

Devices Supporting Zigbee Connection

Devices Compatible with the BT-1 Bluetooth Module

Devices Compatible with the BT-2 Bluetooth Module

RV Leveling

Get instructions for leveling via ONE Core and DC HOME.

Smart Automation

- Door/Window Sensor
- Smart Plug
- Smart Battery
- Motion Sensor

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
Communication	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



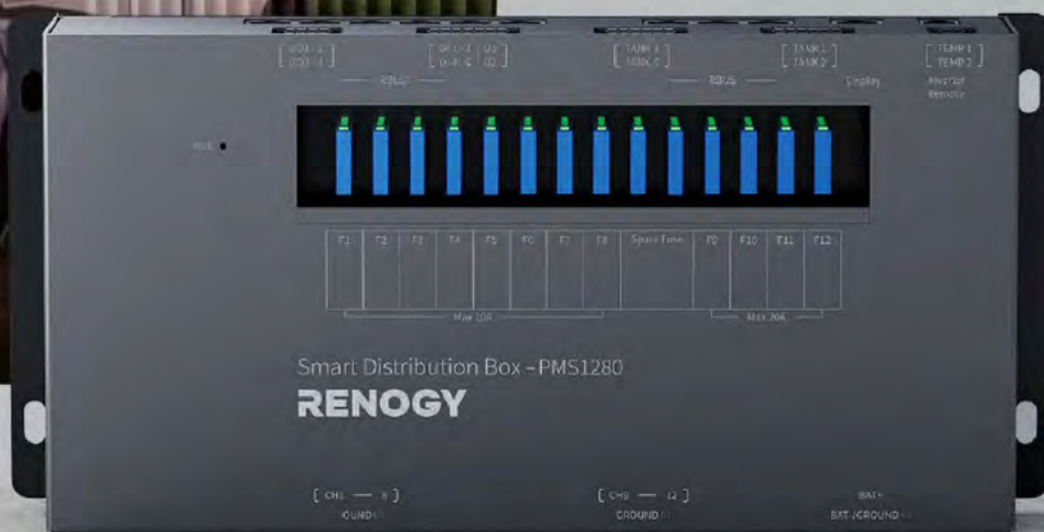
RENOGY ONE Vision All-in-One Monitor (7")

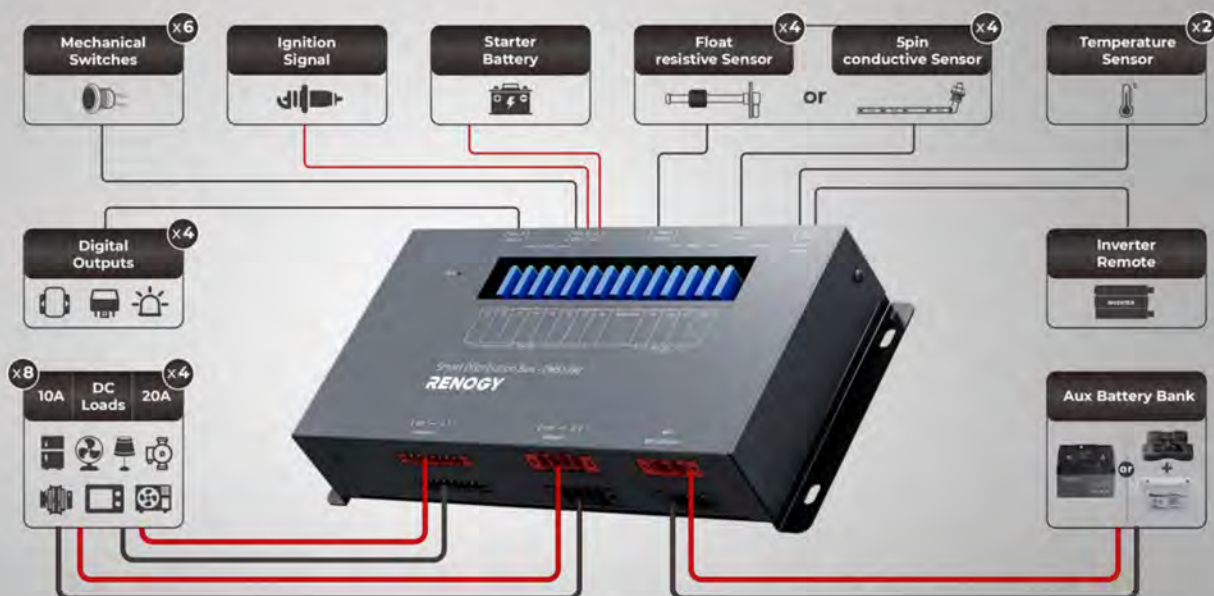
Model No.	RSHSN-W7-G1
Power Supply	8 ~ 60V DC
Power Consumption	< 2W (Standby)
Touch Screen	7 in 600 x 1024 p
CPU	ARM Cortex-A53 Quad-core 64-bit, 2.4 GHz
Memory	2GB + 16GB
WiFi	2.4G Hz/ 5Hz
Bluetooth	Bluetooth 5.0
Ethernet	10 or 100 Mbps
Operating Temperature	-20°C to 70 °C
Weight	350g
Dimensions	178 x 115 x 23.7 mm
Certifications	FCC, CE
Warranty	2 Year



Renogy Smart Distribution Box

The Smart Distribution Box is specifically crafted for RV and motorhome applications, serving as an advanced power distribution control device. It seamlessly interfaces with RV-C communication protocols and is fully compatible with Renogy ONE Core data display. The box consolidates multiple functionalities, 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 ~ 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 ~ 60V DC
Current Sampling	Max 25A Sampling accuracy: ±1%
Dry Contact	Input Signal x 6 Output Signal x 4
Operating Humidity	0% ~ 95% RH
Operating Temperature	-20°C to 70 °C
Weight	1980 g
Dimensions	340 x 157 x 66.4 mm
Certifications	FCC, CE, LVD
Warranty	5 Year

- Advanced user-programmable functions for customized control
- Automatic low-voltage cut-outs and high-voltage cut-ins for safety
- Automatic switching and load shedding capabilities
- Integration with Renogy ONE Core and App for remote monitoring, control, alarms, 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

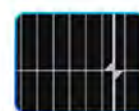
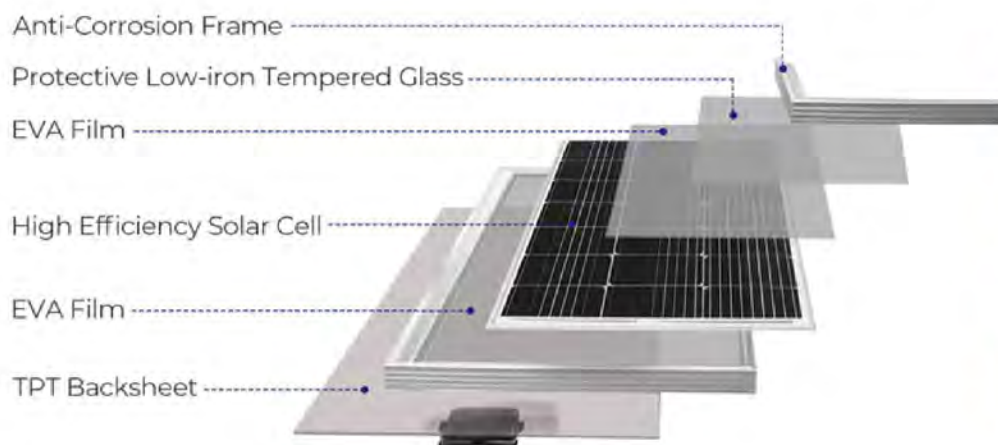


Fixed Monocrystalline Solar Panels

Explore Renogy's Fixed Mono Solar Panels, a top seller with a 4.8/5 rating, praised for its efficiency and reliability. These are designed for fixed installations, commonly on the roofs of caravans, RVs, motorhomes, camper trailers, and 4x4 vehicles.

*Customization is available for RV OEMs to perfectly fit your RV roof space.

Built with Premium Materials



Impact Resistance
Low-iron Tempered Glass



Corrosion Resistance
Durable Aluminum Frame

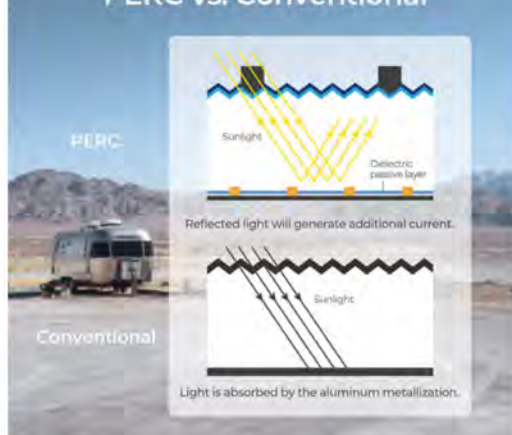


Sturdy Structure
PA66 GB30 Corner Support

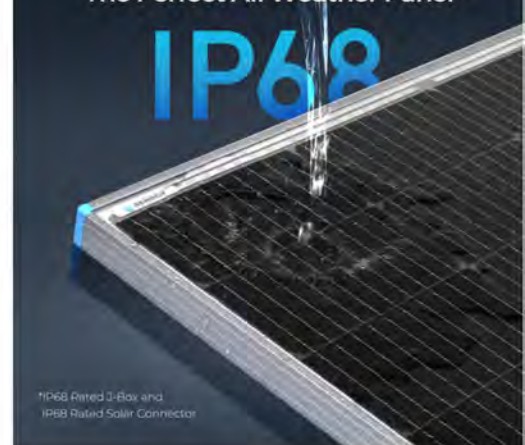
25-Year Performance Warranty



PERC vs. Conventional



The Perfect All Weather Panel



Customization is available for RV OEMs to perfectly fit your RV roof space.



	50W	100W	175W	200W
Max Power at STC				
Model No.	RNG-50D-SS	RNG-100D-SS	RNG-175D	RSP200D
Optimum Operating Voltage	18.6V	20.4V	18.1 V	19.2 V
Optimum Operating Current	2.69A	4.91A	9.67 A	10.42 A
Open Circuit Voltage	22.3V	24.3V	21.6V	23V
Short-Circuit Current	2.94A	5.21A	10.31 A	11.05A
Cable	14AWG 400mm	14AWG 600mm	13AWG 700mm	13AWG 800mm
Dimensions	582 x 508 x 30mm	1062 x 531 x 35 mm	1262 x 699 x 35mm	1491 x 699 x 35mm
Weight	3.5 kg	6.4kg	10 kg	12 kg
Stand Test Condition	Air Mass 1.5 1000 Watts / m ² 25°C			
Operating Temperature	-40°C to +90°C			
Warranty	5-Year warranty on materials and workmanship. 25 Year Performance Warranty			

Bifacial Monocrystalline Solar Panel

By harnessing energy from both the front and rear sides, Renogy bifacial solar panels can produce more electricity per square meter than their single-sided counterparts.



Why Settle for Less?

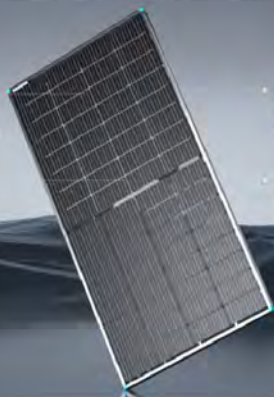
220W STC But 285W Maximum

64

Half-Cut
64 Cells/Module

10

in Parallel
Design



PERC

PERC
Technology

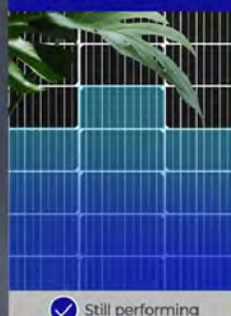
Bifacial

Technology



More Energy Even in Partial Shade

Renogy Half-Cut Panel



✓ Still performing

Conventional Panel



✗ 0 Output



115W



220W



450W



550W

Max Power at STC	115W	220W	450W	550W
Model No.	RSP115DT	RSP220DT	RSP450DT-120	RSP550DT-144
Optimum Operating Voltage	18.8V	18.78V	34.67V	41.97V
Optimum Operating Current	6.12A	12.24A	12.98A	13.11A
Open Circuit Voltage	21.9V	21.86V	41.25V	49.95V
Short-Circuit Current	6.70A	13.41A	13.89A	14.05A
Cable	12 AWG 600mm	12 AWG 800mm	12 AWG 300mm	12 AWG 300mm
Dimensions	786x763x30mm	1547x763x30mm	1909 x 1134 x 35mm	2279x1134x35mm
Weight	6.1kg	12.4kg	23.1kg	26.5 kg
Warranty	10-Year warranty on materials and workmanship. 25 Year Performance Warranty			



Corner Mounting Brackets

Model No. RNG-MTS-CB

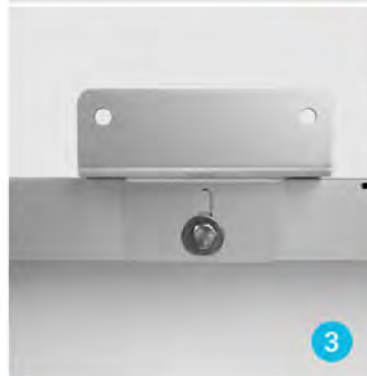
- UV-resistant ABS Plastic
- Drill-free mounting.
- Designated for virtually any aluminum framed solar panels.
- Side Bracket Dimensions (l x w x h) 178 x 117 x 58 mm
- Corner Bracket Dimensions (l x w x h) 150 x 150 x 58 mm



Z Mounting Brackets

Model No. RNG-MTS-ZB

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



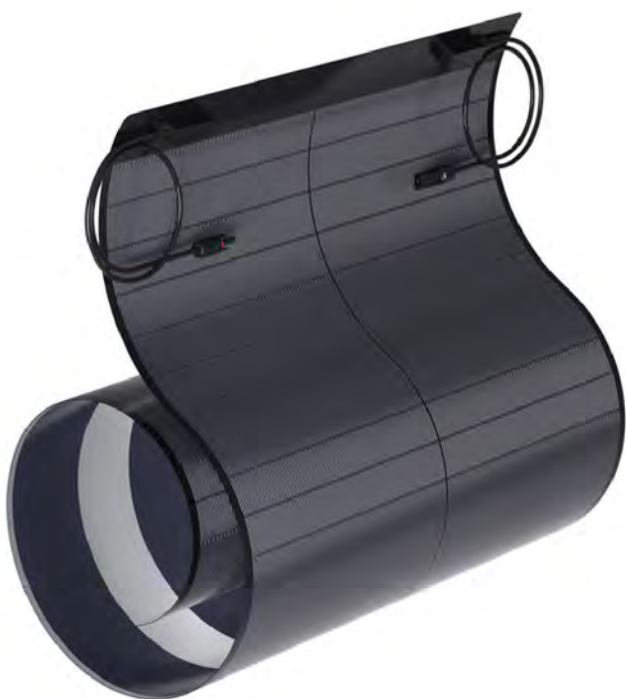
Tilt Mounting Brackets

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.

Lightweight and Flexible Panels

Renogy Lightweight and Flexible Solar Panels are highly flexible compared to rigid silicon-based panels, enabling seamless integration into curved or irregular surfaces. This flexibility expands installation options significantly.



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 perform well under low-light conditions, such as cloudy days or partial shading. They can generate electricity even when sunlight intensity is not at its peak, making them suitable for diverse climates.
- **Temperature Coefficient:** CIGS panels typically have a lower temperature coefficient compared to silicon-based panels. This means their efficiency doesn't drop as much in hot temperatures, leading to more consistent performance in varying weather conditions.
- **Durability:** CIGS panels are less prone to degradation from UV exposure and other environmental factors compared to some other thin-film technologies. This contributes to their long-term reliability and durability.

Effortless Installation



STEP 1

Clean and dry the installation area



STEP 2

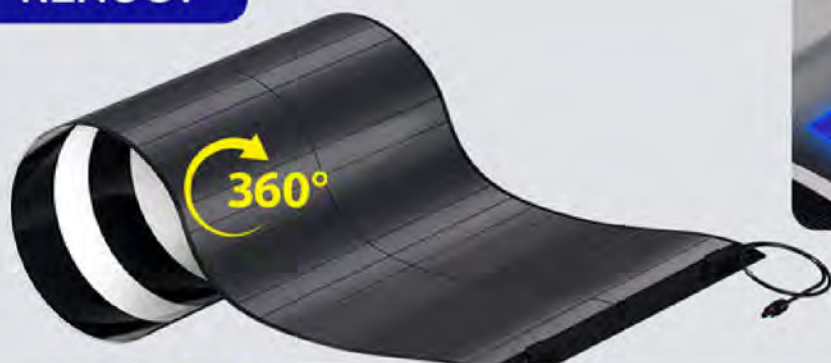
Peel off the adhesive tape or and attach the solar panel.



STEP 3

Allow it to sit undisturbed for 24 hours.

RENOGY



- Durable
- 25-year warranty

RENOGY



248° curvature



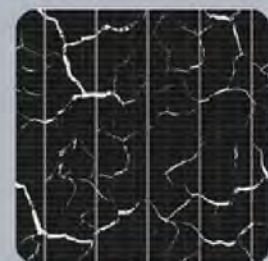
- No microcracks
- 23% cell efficiency

OTHERS

Semi-Flexible Panel



30° curvature



- Breakable
- 1-year warranty

Customization is available for RV OEMs to perfectly fit your RV roof space.



	150W	100W	175W	200W
Max Power at STC	150W	100W	175W	200W
Model No.	RSP150MCB-BB	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	9.50 A	10.74A
Cable	12 AWG 700mm	12 AWG 700mm	12 AWG 700mm	12 AWG 700mm
Dimensions	1658*646*1.5 mm	1093 x 582 x 3 mm	1504 x 673 x 2 mm	1605 x 748 x 3 mm
Weight	3.0kg	2.4 kg	2.8 kg	4.9 kg
Warranty	5-Year warranty on materials and workmanship. 25 Year Performance Warranty			

Lightweight Portable Solar Suitcase



Protective Case:

- Easily portable with impact protection for transportation.



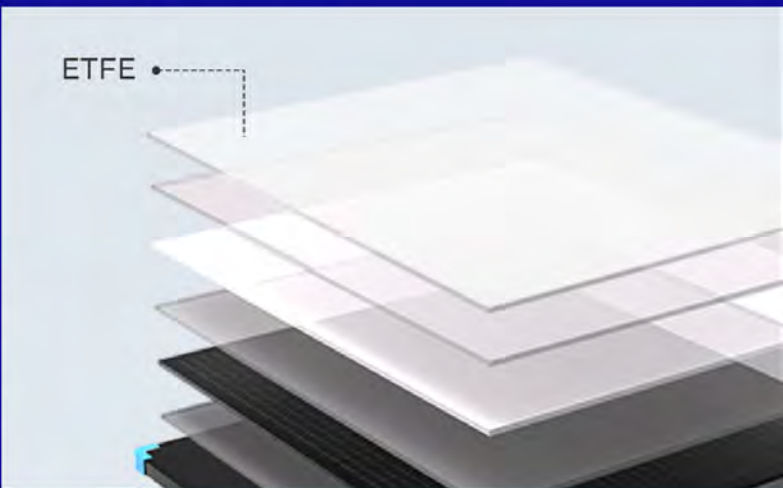
Fiberglass Reinforcement:

- Ensures exceptional durability, even in light hailstorms.



Corner Protection:

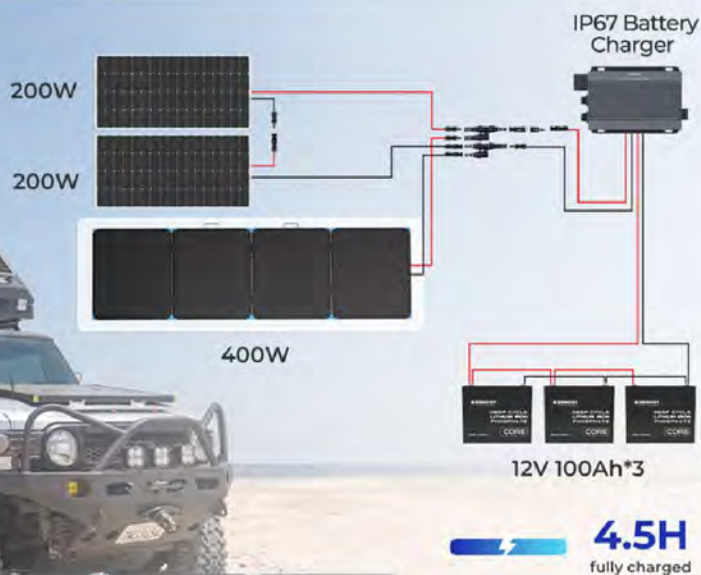
- Enhances longevity and resilience, protecting against wear and tear.



ETFE Coating:

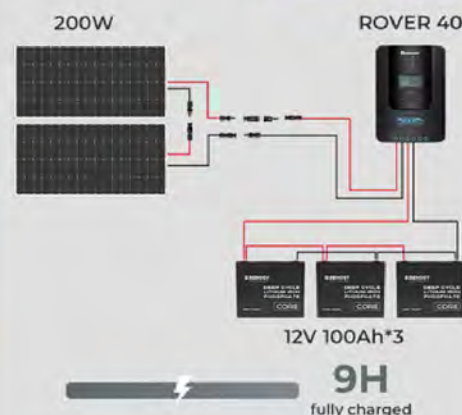
- Enhances durability and weather resistance for long-term performance.

Upgraded System



*This system configuration is for reference only.

Existing System



*If panel power surpasses controller capacity, kindly consider upgrading for full panel output.

Robust Structure for Consistent Panel Output

Sturdy, rust-resistant kickstands with adjustable angles allow maximum power generation.



Max Power at STC	200W	400W
Model No.	RPP200EF-SE	RSP400LSC
Optimum Operating Voltage	20.16V	40V
Optimum Operating Current	9.92A	10A
Open Circuit Voltage	23.40V	47.2V
Short-Circuit Current	10.50A	11A
Output	Type C (45W) USA A (15W) USB A (18W) MC4 Port (IP68 Protection)	Type C (45W) USA A (15W) USB A (18W) MC4 Port (IP68 Protection)
Dimensions	635 x 536 x 55 mm(fold) 2390 x 536 x 4 mm (unfold)	708 x 855 x 80mm(fold) 2838 x 855 x 20 mm (unfold)
Weight	8.0 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 (except lithium batteries) and provides comprehensive protection. The 4-stage charging ensures safe and efficient battery performance, while diverse load control and remote monitoring offer enhanced system management.

Bring Dead Batteries to Life

Activates dead batteries with small current to get it out of the protection mode triggered by the battery management system (BMS).



Multiple Charging Ports for Easy Connection



Compatible with Various Battery Types

Automatically detects 12V/24V system voltage for Non-Lithium batteries



Real-Time Monitoring

Seamlessly integrate with the BT-1 to provide instant data on your DC Home app & Renogy ONE ML.



Temperature sensor and mounting brackets are included in the package.



Model No.	RNR-CTRL-RVR20	RNR-CTRL-RVR30	RNR-CTRL-RVR40	RNR-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
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			

Battery Chargers

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



Renogy DC to DC On-Board Battery Chargers

Various Protections For Ultra Safety



Compatible Multiple Battery Types

Unlimit your battery choice



Product Display

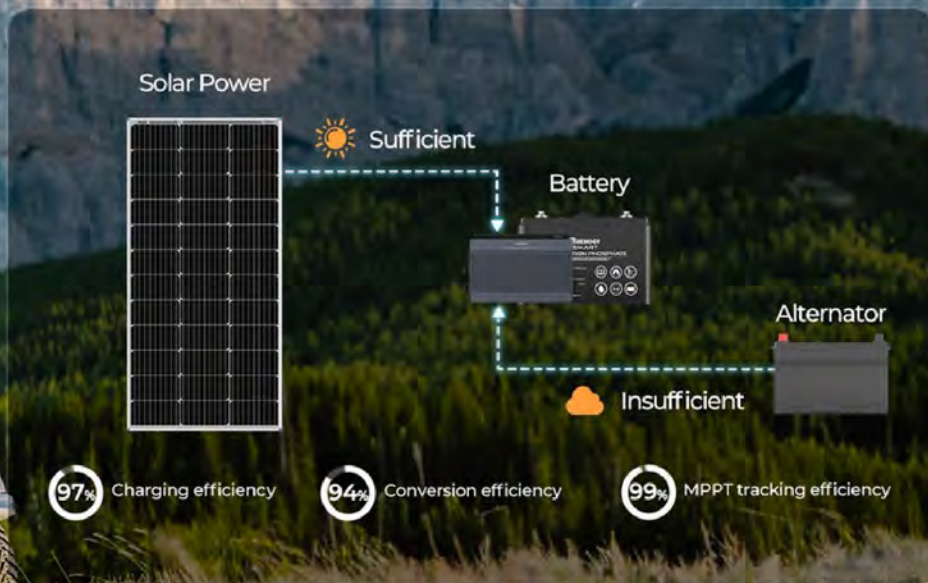


1. Negative DC Input Terminal
2. Positive DC Input Terminal
3. Ventilation Fans

1. Power LED
2. Fault LED
3. Dip Switches
4. RJ11 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		



Compact Waterproof DC-DC Charger

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



Monitor with Ease

Compatible with both built-in Bluetooth and wired CAN communication



Compatible with Most Battery Types

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

Lithium Battery



Lead-Acid Battery



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	Built-in BT, CAN	RS485 (BT-2)	RS485 (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

FAQs

for Renogy's Battery Chargers

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

- A DC-DC on-board battery charger is a device that converts DC (direct current) power from a vehicle's electrical system into a suitable voltage and current to charge auxiliary batteries. It is typically installed on the vehicle and ensures that auxiliary batteries receive efficient and controlled charging while the vehicle is running. These chargers are designed to optimize charging performance, protect batteries from overcharging, and maintain a reliable power supply for various applications, such as RVs, boats, and off-grid setups.

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

- This battery charger is compatible with both traditional and smart alternators. For smart alternators, which have controlled charging output based on operating conditions, the charger must be connected through the Vehicle Ignition Port using the IGN Signal Wire included in the package.

What types of battery does the charger support?

- This charger supports Gel, AGM, Flooded, and Lithium batteries, but it's essential to set the correct battery type after installation. Please refer to the Manual Book for battery settings, specifically on pages 12 and 15.

Installation Tips for Renogy DC-DC Battery Charger with MPPT

Avoid reversing the polarity during battery connections, as this can lead to injury and damage to the device.

When connecting the charger and battery, ensure the battery terminals are clean, use an appropriate cable cross-section for connections, and securely tighten nuts and bolts to prevent overheating due to loose connections.

Use caution when tightening DCDC 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 will be 15A / 25A for each. If connecting to only one DC input, the maximum input current will be 30A / 50A.

Built-in MPPT Maximizing the Power from Sun



Up to 99%

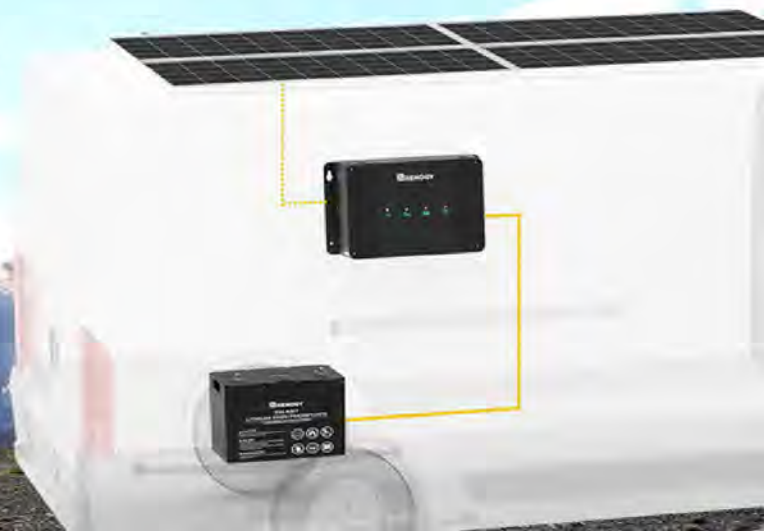
MPPT Tracking Efficiency

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 stand out due to their high charge density, extended lifespan, and deep-cycle capability while retaining power. They are the safest type of ionic lithium battery available, offering 12-volt, 24-volt, and 48-volt options. Maintenance-free and exceptionally durable, they represent a smart, long-term investment.

RENOGY
SMART
LITHIUM IRON PHOSPHATE

12V 100AH BATTERY W/ BMS (RECOMBINATION)

1. Please ensure that your charger is lithium iron phosphate before use.

2. Do not scratch, puncture, or lockstrate the battery. The external contacts. Do not expose to temperatures above 120°F (49°C).

3. For more information, please visit www.renogy.com or



BATTERIES

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



- Without Active Backup Protection



Dimensional Reference Guide

Before installing the battery, please note that you need to leave 1.97-3.94 in (5-10 cm) for the top of the battery; the side with busbars needs to be left at least 7.87 in (20 cm).

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

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



Renogy PRO

Renogy Pro represents enhanced performance in every aspect. The Renogy Pro LifePO4 battery offers options of 12V 100Ah and 200Ah, featuring built-in Bluetooth for effortless monitoring via 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



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 goes to next level with advanced backup protection



60+ BMS Protection



Active Backup Protection



Model No.	RBT12100LFP-BT	RBT12200LFP-BT
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
Nominal Voltage	12.8V	12.8V
Rated Capacity	100Ah (0.5C, 25°C)	200Ah (0.5C, 25°C)
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	UL94 V-0
Charge Temperature Range	-20°C to 55°C	-20°C to 55°C
Discharge Temperature Range	-20°C to 60°C	-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	MSDS, UN38.3, FCC, CE, PSE, and UKCA
Warranty	7 Year	7 Year

Renogy 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)

Expand Your Power Storage to Max. 20.48kWh

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



Max.
5.12kWh
Series

Max.
20.48kWh
Series-Parallel

Max.
10.24kWh
Parallel

Advanced BMS for Enhanced Battery Protection

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



Upgrade to Trusted LiFePO4 Power

Step up your power system with lasting power for less

12V 100Ah Lead-acid Battery

- 600Wh usable capacity³
- 729 in³ & 60lb
- 400-500 cycles (50% DOD)
- \$0.62/kWh lifetime cost

Renogy 12V 100Ah LiFePO4 Battery (Core series)

- **2.3X** more power (Max. 1356Wh)
- **14%** smaller & **61%** lighter (629 in³ & 23.15lb)
- **EV-grade battery cells** with 5000 cycles (80% DOD)
- **\$0.09/kWh** lifetime cost

3. Lead-acid batteries are usually recommended discharging 50% of rated capacity in real-world applications.



Model No.	RBT12100LFP	RRBT12200LFP	RBT12300LFPSH
Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
Nominal Voltage	12.8V	12.8V	12.8V
Rated Capacity	100Ah (0.5C, 25°C)	200Ah (0.5C, 25°C)	200Ah (0.5C, 25°C)
Cycle Life (0.5C, 25°C)		5000 Cycles (80% DOD, 80% EOL)	
Maximum Charge Current	100A	100A	200A
Maximum Discharge Current	100A	200A	200A
Protection Rating	IP65	IP65	IP65
Charge Temperature Range	0°C to 55°C	0°C to 55°C	-20°C~55°C
Discharge Temperature Range	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Connection Method	Series (Up to 4); Parallel (Up to 8); Series & Parallel (4P4S)		
Housing Material	ABS	ABS	ABS
Dimensions	260 x 169 x 211 mm	522 x 240 x 219 mm	467 x 212 x 208 mm
Weight	10.5 kg	21.45 kg	31.3 kg
Certification	MSDS, UN38.3, FCC, CE, PSE, and UKCA		
Warranty	5 Year	5 Year	5 Year

Inverters and Inverter Chargers

Renogy leads the industry with advanced inverter and inverter charger solutions. Our products boast top-of-the-line features such as power-saving mode, optional connectivity to monitoring devices like the BT-2, and automatic power transfer capabilities.

INVERTERS



Battery Inverters

RENOGY



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	12V DC	12V DC
AC Output Voltage	220-240V AC	220-240V AC	220-240V AC
AC Output Frequency (Nominal)	50HZ	50HZ	50HZ
Output Wave Form	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Low Voltage Shutdown	10VDC	10VDC	10VDC
Low Voltage Protection	Recover from low voltage protection		
High Voltage Shutdown	16.3VDC	16.3VDC	16.3VDC
Battery Supply & AC Main Transfer Time	Within 50mS		
Working Temperature	0°C~40°C	0°C~40°C	0°C~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	1 Year	1 Year



Your Two-in-One Solution

Power and Charge with One Device



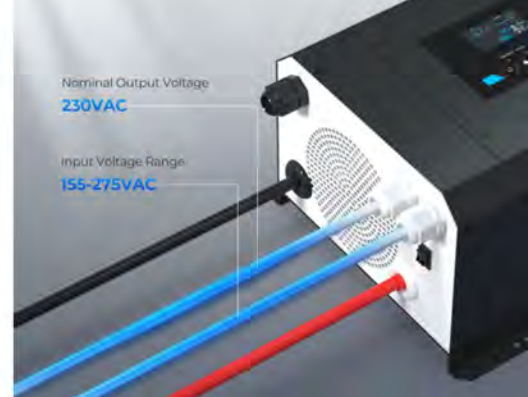
5 Built-in Safety Protections

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)	6000W	6000W
DC Input Voltage	12V DC	12V DC
AC Output Voltage	230VAC (200~240VAC, 10V interval)	230VAC (200~240VAC, 10V interval)
AC Output Frequency (Nominal)	50HZ	50HZ
Output Wave Form	Pure Sine Wave	Pure Sine Wave
AC Input Voltage	230 VAC	230 VAC
Input Frequency Range	40Hz - 70Hz	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~40°C	0°C~40°C
Dimensions	510 x 285 x 193 mm	510 x 285 x 193 mm
Weight	23.2 Kg	28.8 Kg
Certification	CE	CE
Warranty	1 Year	1 Year

FAQs

for Renogy's Inverter and Inverter Chargers

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?

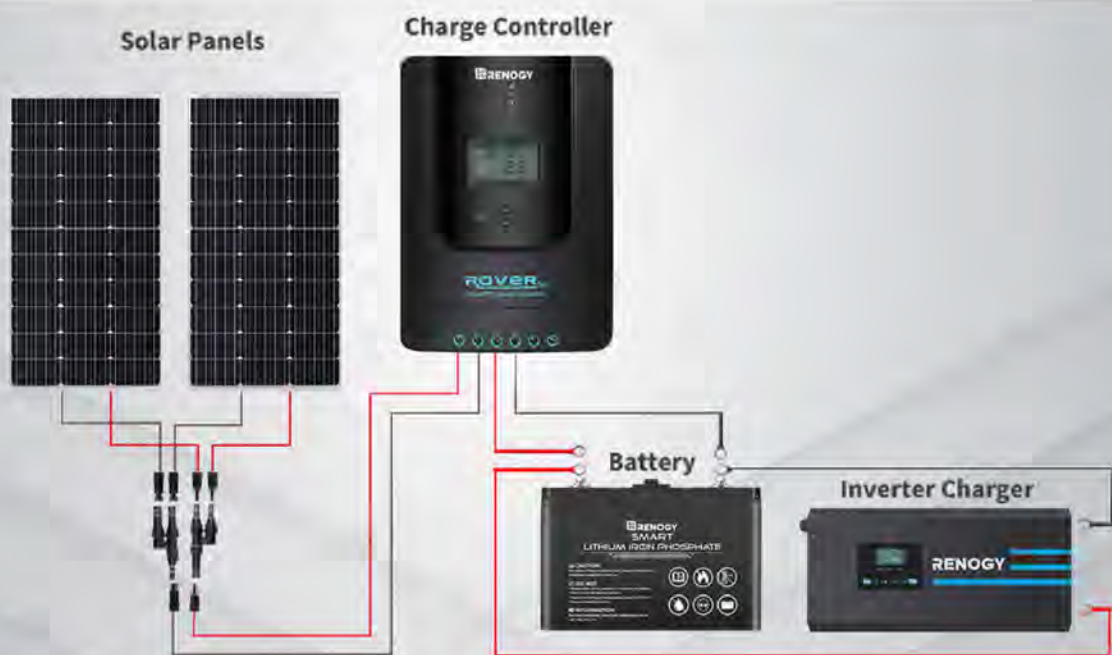
- Yes, Renogy's inverters and inverter chargers have optional connectivity to monitoring devices like the BT-2, which allows you to monitor and control your system remotely via a smartphone app.

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 provides inverters for various battery voltages, ensuring compatibility.
- **Sizing Installation Spaces:** Ensure your installation space allows proper ventilation and safety. Renogy inverters are compact and suitable for various settings, but check compatibility with your installation space beforehand.





Renogy for Professionals™ is a business partner program, specifically dedicated to serving the global RV OEMs, Renogy distributors and dealers.

Email : partner.au@renogy.com

RV OEM Solutions

Outfit your RV with the latest in off-grid power and smart control. Renogy will work with your team implementing our intuitive technical solutions into your RV model.

- Full line-up of industry-leading off-grid power with unmatched price-performance
- Simple, Intelligent and reliable product design

End-to-end OEM Support Local Warehouse

Power system design
Prototyping support
Installation guide and training (Onsite support)
Sales training and marketing support
Full-line local warehousing and next day delivery.



Renogy Dealer Program

We're here as your dedicated partner, offering expert support to help you navigate dynamic industry landscapes. From cutting-edge off-grid products to comprehensive training, we provide dealers with the tools to thrive.

Qualifications for Dealership

Alignment with Values

- Prospective dealers should share Renogy's core values of helping individuals with off-grid system design, installation, and maintenance. They should prioritize customer satisfaction and promote sustainable energy solutions.

Storefront and Professional Staff

- Dealers must have a physical storefront or showroom where customers can access Renogy products and services. Additionally, they should have knowledgeable and trained staff capable of providing expert advice and technical support. (Renogy technical training is also available.)

Good Reputation

- Dealers must demonstrate a track record of professionalism, integrity, and excellent customer service. A positive reputation within the industry and among customers is essential.

Financial Stability

- Dealers should have a stable financial standing with no significant debts or financial issues that could impact their ability to fulfill orders and provide ongoing support to customers.



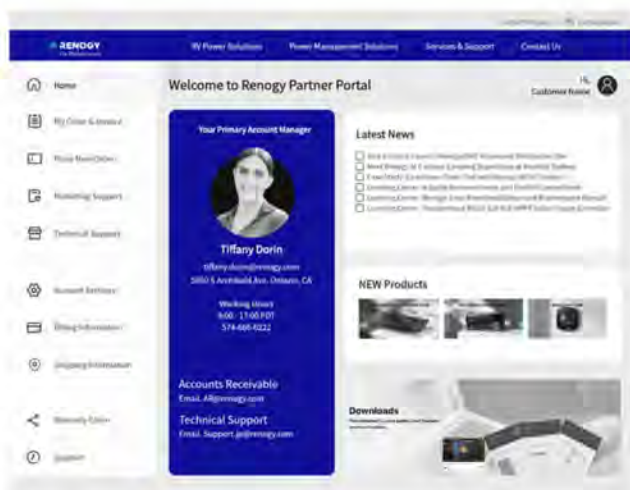
Renogy Dealer Program

Scan the QR Code for More Details

Email to dealer.au@renogy.com

Phone. 800 560 588

- Fill out the online application.
- Renogy reviews your application and assesses suitability within 1 - 3 working days.
- Receive notification of approval as a Renogy Authorized Dealer.
- Renogy creates a Partner Account on Renogy Partner Portal and initiates onboarding.
- Participate in onboarding sessions and access marketing support materials.



Renogy Partner Portal **NEW**

Seamlessly manage your company account, access essential information like invoices, order status, and warranty claims. And explore our extensive products catalog, enjoy exclusive pricing, and easily place orders for the latest products.

- Product Ordering
- Order History & Invoices
- Dedicated Customer Support
- Warranty Claim and Status
- Training Support, Marketing and Sales Support
- And much more!

Tech Support

Access online and in-person training, along with comprehensive support documentation. Get the insights and guidance to tackle any technical challenge confidently.

Marketing Support

We'll introduce end-users seeking product installation services to your dealership, and assist with product displays and provide marketing merchandise.

Warranty & Services

Optimize your warranty process with our dedicated support portal! Access streamlined forms for swift claim resolution, ensuring maximum satisfaction and peace of mind.



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

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

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

Renogy for Professionals

We know it takes more than a great product to satisfy customers and broaden the accessibility of off-grid solar solutions. That's why we are actively looking for business partners to deliver the best product and services globally.



Renogy Dealer Program

Scan the QR Code for More Details

Email to dealer.au@renogy.com

Phone. 800 560 588

Renogy RV OEM Solutions

Email to partner.au@renogy.com

Phone. 800 560 588

[Http://pro.renogy.com/au](http://pro.renogy.com/au)