



MOTORHOMES, CARAVANS, AND CAMPER VANS

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

Renogy France
immeuble Emergence, 24 Rue du Gouverneur
Général Éboué, 92130 Issy-les-Moulineaux



Renogy stands for Renewable and Innovative Energy

To provide the most complete, reliable, and innovative distributed energy solutions, backed by unparalleled customer support, empowering individuals and communities to live more sustainably. Through continuous innovation and education, we make renewable energy practical, accessible, and transformative for a sustainable future.



About Renogy

At Renogy, the future of energy isn't just about technology — it's about empowering people with reliable products and solutions. Since 2010, Renogy has been redefining how the world uses energy, making solar power easier to access for anyone looking to live sustainably and independently.

2010 | Head Office

5050 S. Archibald Ave.
Ontario, CA 91762, United States

Renogy Europe

Frankfurt, Germany
Paris, France

Birmingham, United Kingdom
Bologna, Italy

Renogy Europe supports distributors, installers, and OEM partners across the region, delivering localized off-grid energy solutions that help more people power their RV, campervan, marine, and outdoor adventures with reliable solar energy

Global Services & Business Centers

Tokyo, Japan	Ontario, California
Manila, Philippines	Houston, Texas
Melbourne, Australia	Elkhart, Indiana
Kempton Park, South Africa	
Paraná, Brazil	

Global R&D and Manufacture Centers

2010	Ontario, United States
2015	Suzhou, Wuxi, China
2018	Shenzhen, China
2022	Chengdu, China



16

Global R&D, Manufacturing, and Customer Support
sites in 11 Countries

60+

Number of Countries We
Operate In and Service

800+

Global Employees,
Over 40% in R&D and Product Innovation

200+

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

Trusted Worldwide for Mobile Off-Grid Power

With over 16 years of expertise, Renogy designs off-grid and backup systems built to endure any environment. Every system is tailored to specific challenges, including load demands, user behavior, and climate. Renogy's vast range of solutions addresses off-grid issues and can be customized to meet diverse needs.

Recreational Vehicles



Renogy's RV and overlanding power systems deliver ultimate charging flexibility with solar, alternator, and AC options. Engineered for life on and off the road, Our rugged, vibration-resistant components deliver stable, reliable power wherever your journey takes you. — so you can enjoy free camping, embrace nature, and stay fully powered on every adventure.

Service Vehicle



The right tools require the right power. Renogy delivers industrial-grade performance with high current output and long-term durability, engineered for the most demanding applications in professional and specialized vehicles.

Marine



Renogy's marine off-grid power systems are engineered for harsh marine environments, featuring waterproof, corrosion-resistant components that deliver reliable power on the water—even in saltwater conditions.

Built to Meet Global Standards



UN38.3





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: Built with premium materials and Anderson connectors for safe, reliable connections.
- 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 PREMIUM QUALITY WITH OUTSTANDING VALUE

- 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.



SOLAR PANELS 12

ShadowFlux Anti-shading N-Type Solar Panels	14
N-Type Monocrystalline Solar Panels	16
Lightweight & Flexible Solar Panels	18
Solar Blanket	22
Portable Solar Suitcase	24

MPPT & BATTERY CHARGERS 26

MPPT Charge Controller	27
AC-DC Battery Charger	33
DC-DC Battery Charger	34
DC-DC Charger with MPPT	36

BATTERIES 38

12V Lithium Iron Phosphate Battery - Renogy Pro	40
12V Lithium Iron Phosphate Battery - Renogy Core Mini	42
12V Under-seat Lithium Iron Phosphate Battery	44
12V Solid State Deep Cycle Lithium Battery	46
12V Trolling Motor Lithium Iron Phosphate Battery	52
48V Golf Cart Lithium Iron Phosphate Battery	54

INVERTERS & INVERTER CHARGERS 56

REGO 12V Pure Sine Wave Inverter Charger (3000W)	58
PRO 12V Pure Sine Wave Inverter with Transfer Switch (2000/3000W)	60
REGO 12V Pure Sine Wave Inverter with Transfer Switch (2000W)	62
Core 12V Pure Sine Wave Inverter (1000/2000/3000W)	64

POWER MANAGEMENT 66

Renogy BT-2 Bluetooth Module	67
Renogy 500A Battery Monitor With Shunt	67
Renogy 300 Battery Shunt and Monitor	68
Renogy ONE Core Monitor (4" Touchscreen)	69
Renogy ONE Vision (7" Touchscreen)	70
Renogy Smart Distribution and Power Management Kit	71

ACCESSORIES 76

Tools and Mounting Solutions	77
Cables and Wiring	78
Wiring and Mounting Kit	79



Smarter, Safer, Stronger Power

Renogy delivers a complete off-grid energy ecosystem built on smart connectivity, uncompromising safety, and high-quality engineering. From solar panels to advanced batteries and monitoring systems, every solution is designed to work seamlessly together—empowering people to live independently with confidence.

Rugged Design For **Mobile Applications**

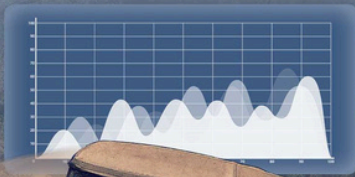
Extensive testing ensures stable performance under harsh vibration conditions



Road Load Tested



Extruded Aluminum Housing



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.

All-in-One Monitor

- Renogy App
- Renogy ONE Core (4" Touchscreen, Gateway)
- Renogy ONE Vision (7" Touchscreen)
- Renogy ONE Portal (Web-based Platform)

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

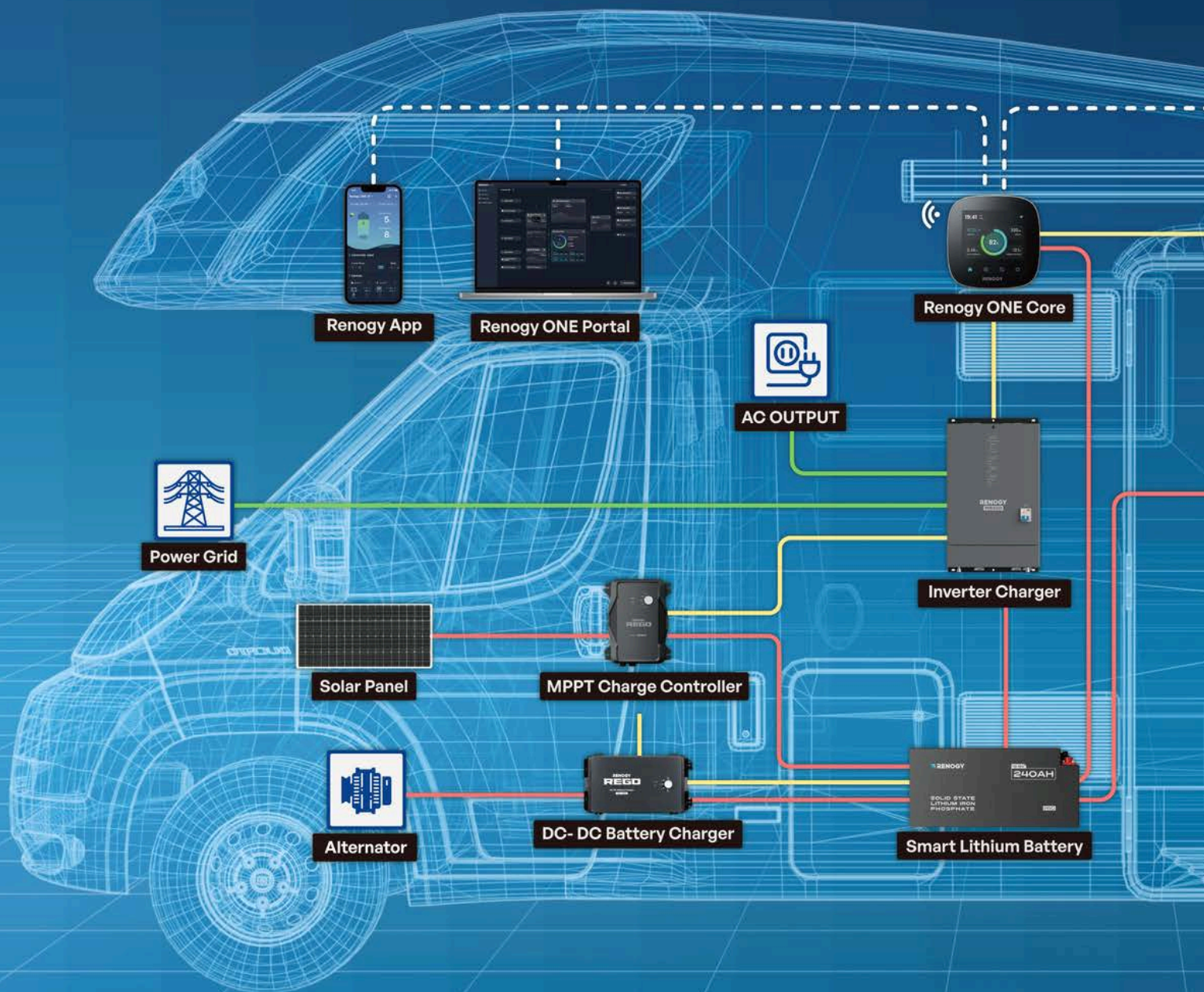


Global Standards Uncompromising Quality

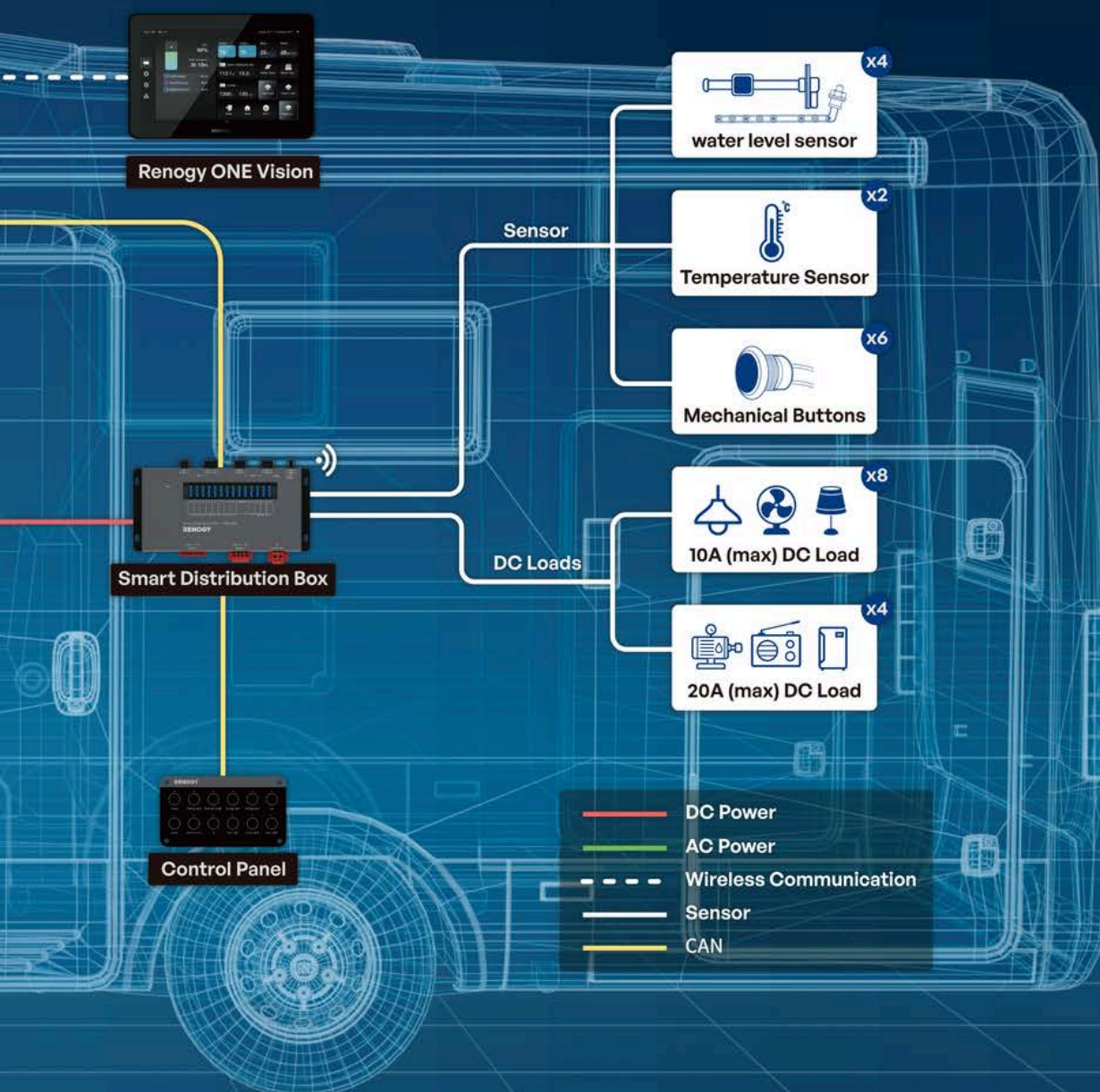
Renogy products have passed rigorous international quality and safety tests, including standards from the U.S., Europe, Japan, South Korea, Australia, and China.

- Lithium Batteries – UL 1973; ECE R10; CE-EMC; CE-LVD
- Inverters – UL 458; CE- EMC; ECE R10; RoHS
- Solar Panels – UL 61730; CE- EMC; ECE R10; RoHS
- Charge Controller – UL 1741; CE- EMC; ECE R10; RoHS
- DC-DC Battery Charger – UL 458; CE- EMC; ECE R10; RoHS

Reliable, Smart Off-Grid Energy for Every Journey



Supports Multiple Communication Protocols



All Types of Solar Panels

Renogy offers a versatile lineup of high-efficiency solar panels trusted by the off-grid and outdoor community. From rigid monocrystalline panels for permanent setups to flexible and CIGS panels for curved or shaded surfaces, Renogy covers every application. Portable options like solar blankets and suitcases offer plug-and-play convenience. Known for top-tier performance and reliability, Renogy is a leader in solar innovation.

Find Your Perfect Solar Panel Solution



Fixed Solar Panel



Lightweight and Flexible



Solar Blanket

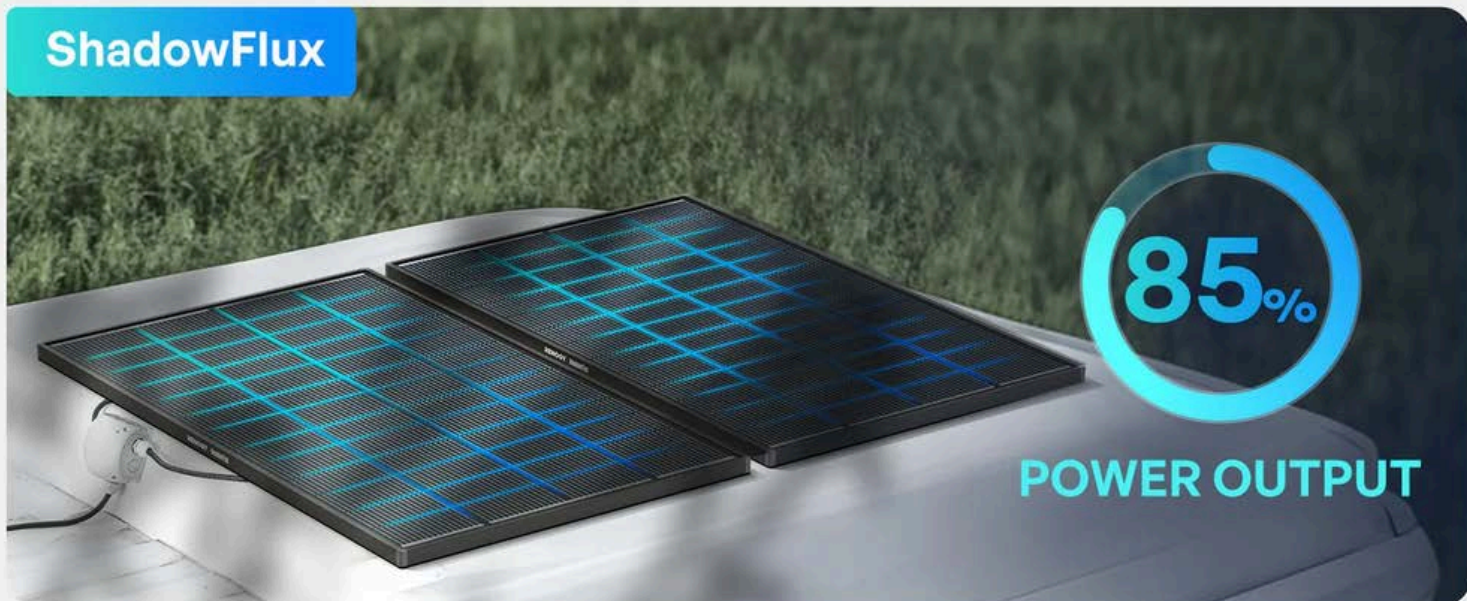


Solar Suitcase

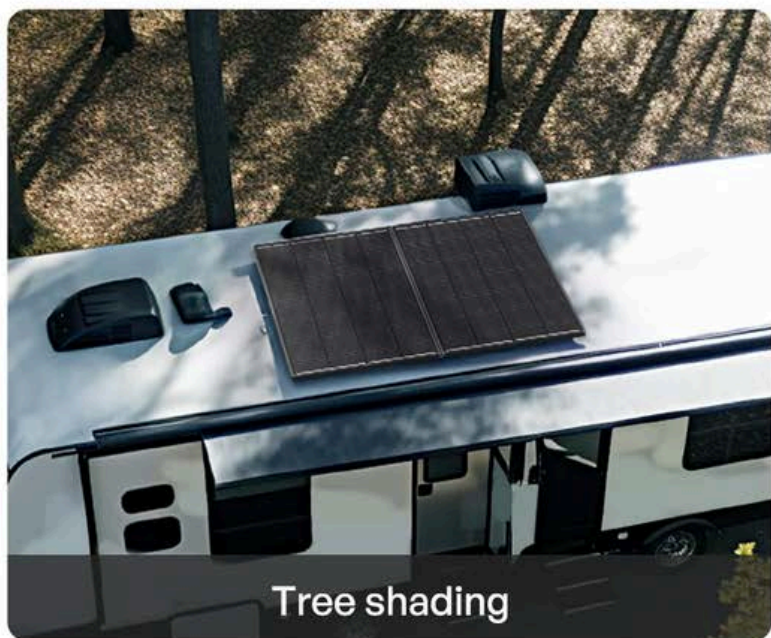
Always Power On, Where Others Fail

Up to 85% more power output in partial shade

ShadowFlux



Others



25%
Highest Efficiency

16
Busbars

-0.27% /°C
Temperature Coefficient

25 Years
Power Warranty

ShadowFlux™ N-Type Solar Panels

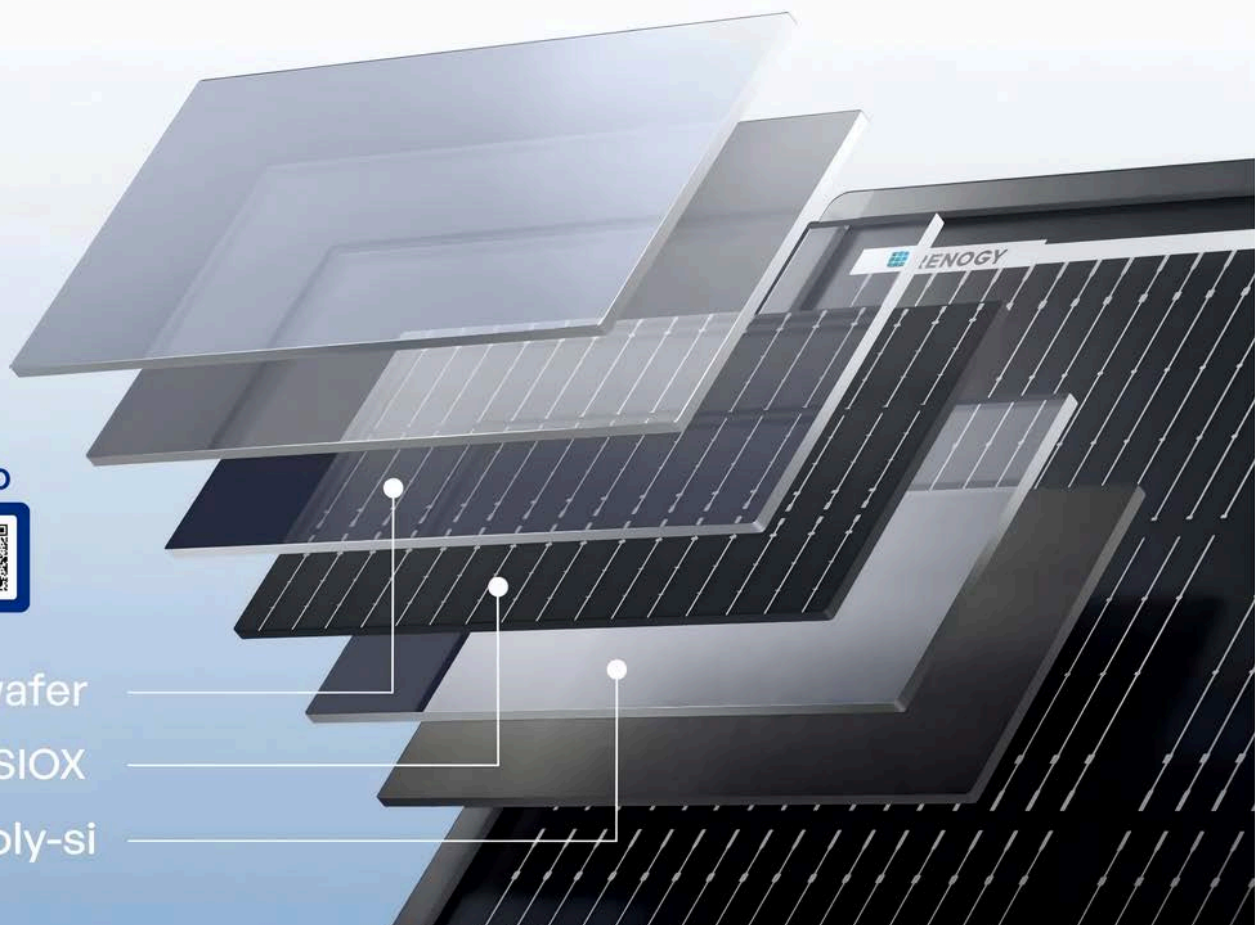
Watch Video



N-type Si wafer

Tunnel SiO_x

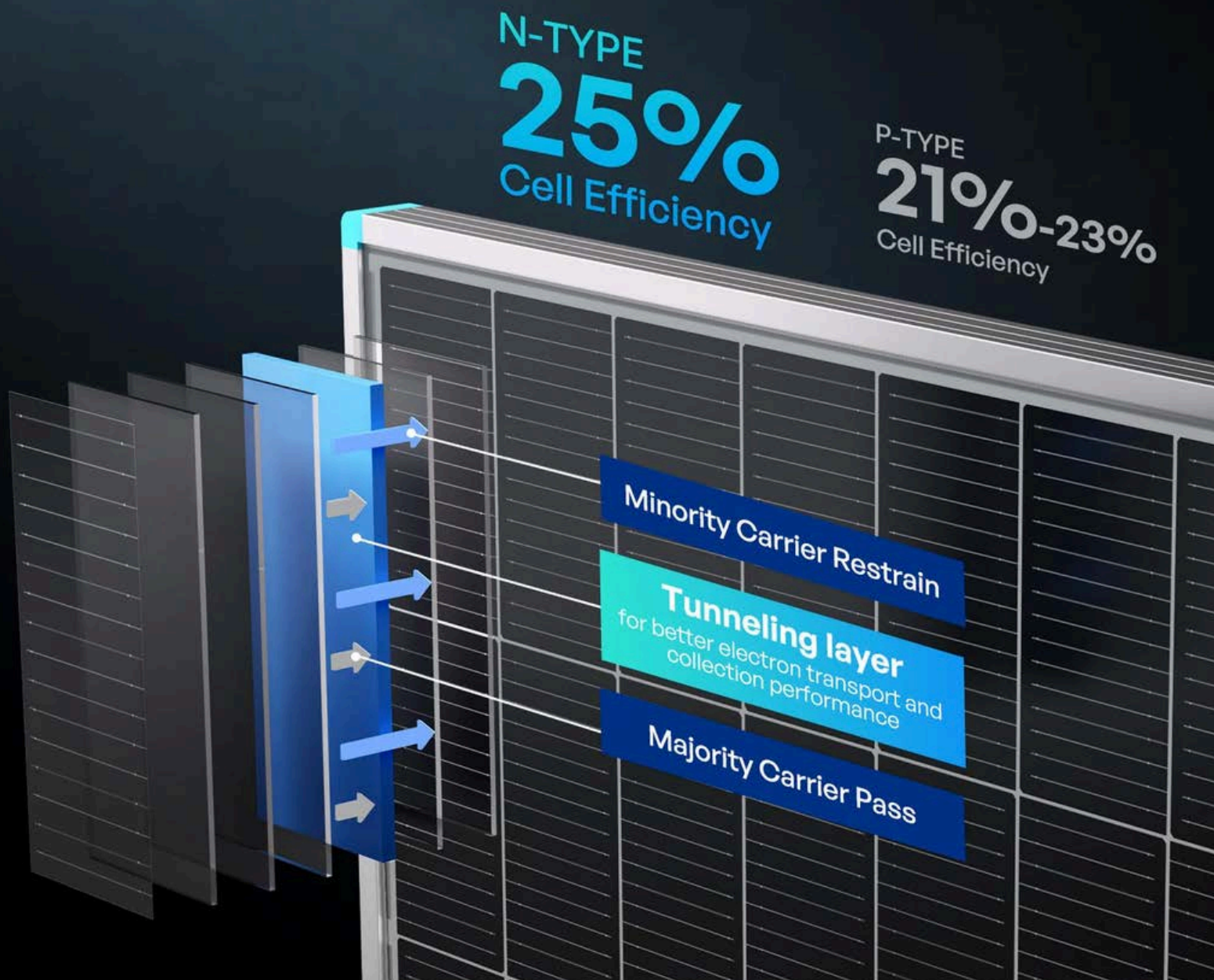
N+ poly-si



Model No.	RSP120DC-ASR	RSP200DC-ASR
Maximum Power at STC	120 W	200 W
Optimum Operating Voltage (V _{mp})	28.9 V	31.3 V
Optimum Operating Current (I _{mp})	4.21 A	6.38 A
Open-Circuit Voltage (V _{oc})	33.7 V	36.5 V
Short-Circuit Current (I _{sc})	4.57 A	6.86 A
Module Efficiency	20.70%	20.70%
Dimensions	41.42 × 22.76 × 1.18 in 1,052 × 578 × 30 mm	49.69 × 30.08 × 1.18 in 1,262 × 764 × 30 mm
Weight	15.87 lbs / 6.81 kg	23.83 lbs / 10.81 kg
Output Cables	14 AWG 23.6 in / 600 mm	14 AWG 23.6 in / 600 mm
Certification	CE, SAA, RCM	
Material and Workmanship Warranty	5-Year	5-Year

N-TYPE Panel with 25% Efficiency

Delivers superior output vs. standard P-TYPE modules



Low Degradation, Longer Lifespan



25-Year Lifespan



+3.2% Longer Performance

$\leq 1\%$

First-year Degradation

$\leq 3\%$

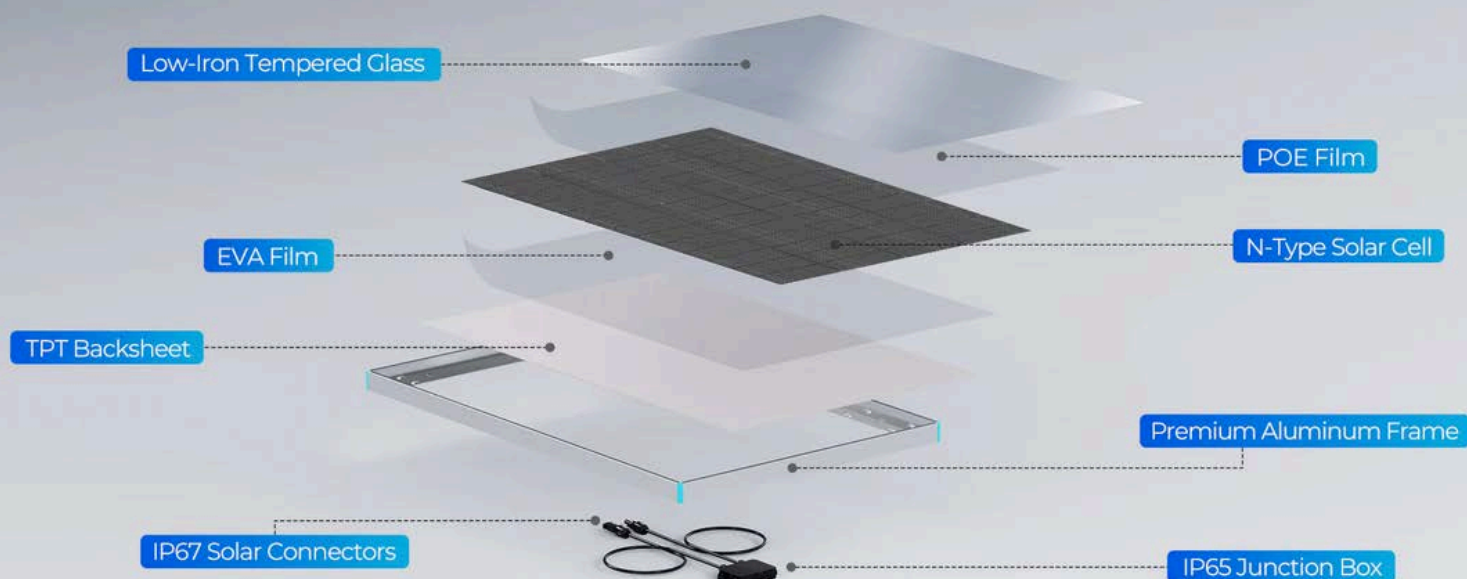
First-year Degradation

$\leq 0.4\%$

Annual Degradation

$\leq 0.45\%$

Annual Degradation



Key Benefits of N-Type Solar Cells

- Higher Efficiency – Converts more sunlight into electricity; typically 2–4% higher than p-type.
- No Light-Induced Degradation (LID) – Maintains performance after exposure to sunlight.
- Better Temperature Performance – Delivers stable output in hot climates.
- Longer Lifespan – More resistant to impurities and Potential-Induced Degradation (PID).
- Improved Reliability – Better long-term stability and consistent energy yield.
- Future-Proof Technology – Becoming the mainstream choice for premium solar panels.



Model No.	RSP100DC	RSP175DC	RSP200DC
Maximum Power at STC	100 W	175 W	200 W
Optimum Operating Voltage (V _{mp})	19.97 V	20.88 V	31.03 V
Optimum Operating Current (I _{mp})	5.01 A	8.38 A	6.45 A
Open-Circuit Voltage (V _{oc})	22.79 V	24.48 V	37.44 V
Short-Circuit Current (I _{sc})	5.31 A	8.88 A	6.85 A
Module Efficiency	20.0%	20.6%	20.7%
Dimensions	34.1 x 22.8 x 1.2 in 865 x 578 x 30 mm	43.7 x 30.1 x 1.2 in 1,110 x 764 x 30 mm	49.7 x 30.1 x 1.2 in 1,262 x 764 x 30 mm
Weight	13.0 lbs / 5.9 kg	21.2 lbs / 9.6 kg	23.4 lbs / 10.6 kg
Output Cables	14 AWG 23.6 in / 600 mm	14 AWG 27.6 in / 700 mm	14 AWG 27.6 in / 700 mm
Certification	CE, SAA, RCM		
Material and Workmanship Warranty	10-Year	10-Year	10-Year



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.

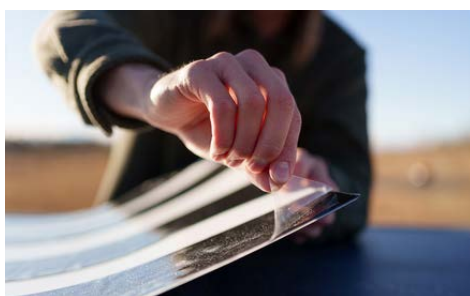


Easy Installation



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.

Designed for Versatile Installation Options

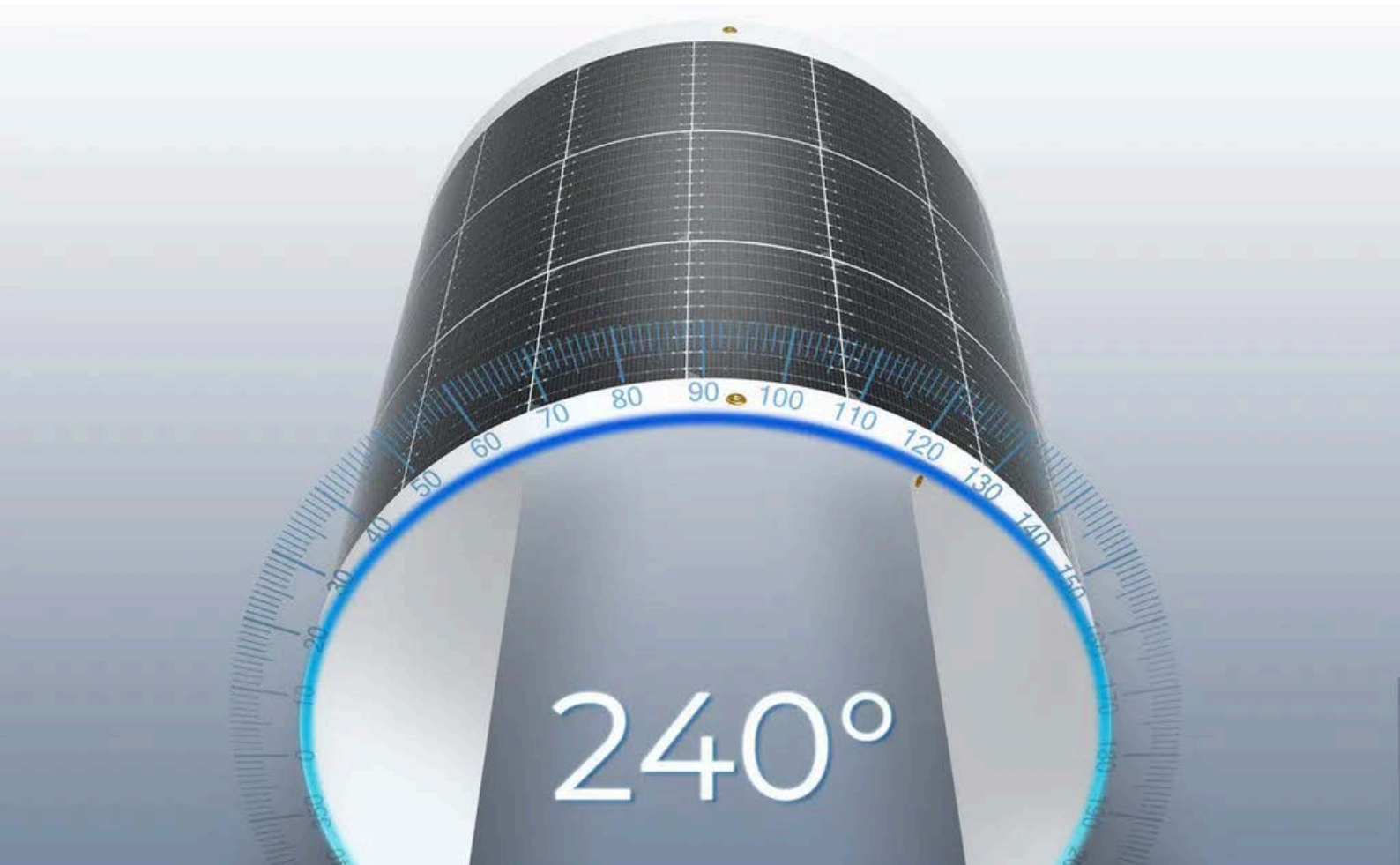
The easiest installation methods ever



Model No.	RSP150MCB-BB-P
Maximum Power at STC	150 W
Optimum Operating Voltage (Vmp)	18.7 V
Optimum Operating Current (Imp)	8.04 A
Open-Circuit Voltage (Voc)	23.8 V
Short-Circuit Current (Isc)	9.34 A
Module Efficiency	14.00%
Dimensions	65.3 x 25.4 x 0.06 in / 1,658 x 646 x 1.5 mm
Weight	6.61 lbs / 3.0 kg
Output Cables	12 AWG 27.6 in / 700 mm
Certification	CE
Material and Workmanship Warranty	5-Year

Extremely Flexible, Up to 240°

Fit almost any curved surfaces to utilize space usage



6 Mounting Holes
Reinforced with Metal



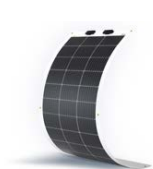
Drill-Free Installation
Using Silicone Adhesive



Quick-Assemble Solar
Connectors

ETFE Surface with Better Light Transmission and Durability

Advanced ETFE surface delivers up to 95% light transmission, increasing power output by 3–5% compared to standard panels.



Model No.	RNG-100DB-H	RSP100DL-36	RSP200DB-72
Maximum Power at STC	100 W	100 W	200 W
Optimum Operating Voltage (Vmp)	20.7 V	19.4 V	20.1 V
Optimum Operating Current (Imp)	4.84 A	5.20 A	10.02 A
Open-Circuit Voltage (Voc)	24.4 V	23.5 V	23.9 V
Short-Circuit Current (Isc)	5.16 A	5.51 A	10.74 A
Module Efficiency	15.70%	15.70%	16.70%
Dimensions	43.0 x 22.9 x 0.1 in 1,093 x 582 x 3 mm	43.0 x 22.9 x 0.1 in 1,093 x 582 x 3 mm	63.2 x 29.5 x 0.1 in 1,605 x 748 x 3 mm
Weight	3.97 lbs / 1.8 kg	5.3 lbs / 2.4 kg	10.8 lbs / 4.9 kg
Output Cables	12 AWG 27.6 in / 700 mm		
Certification	CE	CE	CE
Material and Workmanship Warranty	5-Year	5-Year	5-Year



Solar Blanket

The Renogy Solar Blanket comes in 200W and 400W models, combining lightweight portability with powerful performance. Built with high-efficiency N-type cells (up to 25%), it delivers reliable energy in a compact, foldable design that's easy to carry and store. Ideal for camping, overlanding, and mobile setups, the Renogy Solar Blanket is your go-to solution for clean, convenient off-grid power.



Storage Backpack



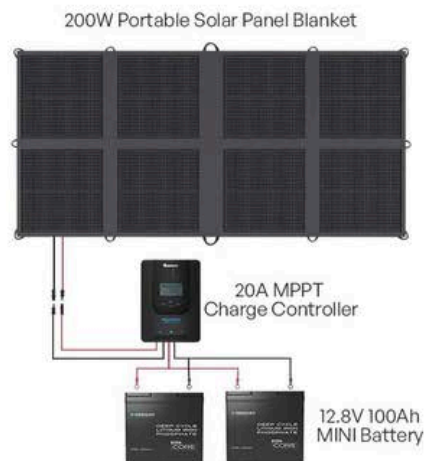
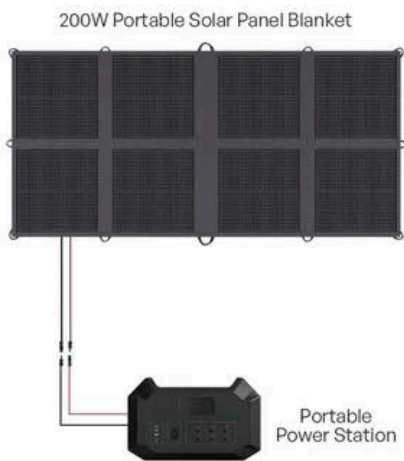
Detachable Straps



Built-in Cables



Junction Box



Model No.	RPP200SB-SE	RSP400SB
Maximum Power at STC	200 W	400 W
Optimum Operating Voltage (Vmp)	16.8 V	33.6 V
Optimum Operating Current (Imp)	11.9 A	11.9 A
Open-Circuit Voltage (Voc)	19.6 V	39.2 V
Short-Circuit Current (Isc)	13.1 A	13.1 A
Module Efficiency	15.8%	15.2%
Dimensions (Unfold)	61.41 x 31.89 x 1.49 in 1,560 x 810 x 38 mm	64.96 x 62.99 x 1.50 in 1,650 x 1,600 x 38 mm
Dimensions (Folded)	16.14 x 15.35 x 3.07 in 410 x 390 x 78 mm	16.54 x 15.83 x 4.13 in 420 x 402 x 105 mm
Weight	8.82 lbs / 4.0 kg	16.09 lbs / 7.3 kg
Output Cables	14 AWG 78.74±1.97 in / 2,000±50 mm	12 AWG 118.11±1.97 in / 3,000±50 mm
USB Output	USB C: PD3.0, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 45W Max USB A (Orange): 5V/3A, 9V/2A, 12V/1.5A, 18W Max USB A (Black): 5V/3A, 15W Max	/
Certification	CE, RoHs, FCC, IC, TSCA, CA65, PSE	
Material and Workmanship Warranty	2-Year	2-Year

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.



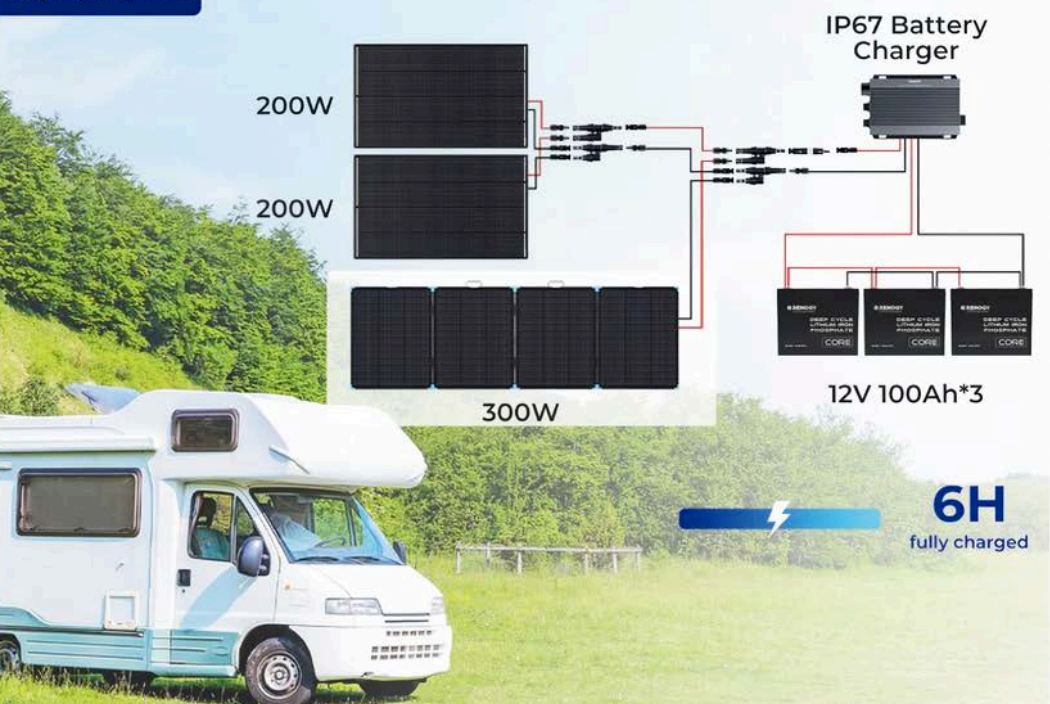
ETFE

ETFE stands for Ethylene Tetrafluoroethylene, a durable and lightweight fluoropolymer material

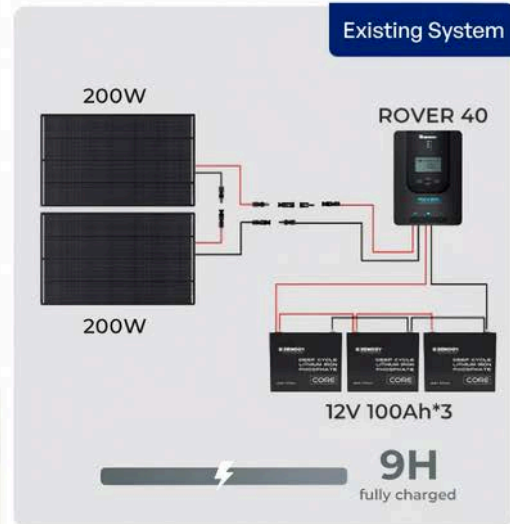
ETFE Coating

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

Upgraded System



Existing System



*This system configuration is for reference only.

Premium Materials for Outdoor Use

Reinforced with fiberglass material for enhanced durability

Fiberglass Reinforced Material

- ✓ 25% cell efficiency
- ✓ 3-year warranty
- ✓ Aluminum alloy frame
- ✓ Sturdy and flat
- ✓ 10-year power warranty

Composite Laminated Material

- 22% cell efficiency
- 1-year warranty
- Laminated frame
- Flimsy and sagging
- Rapidly diminished power output

Highly Stable and Easy to Assemble Structure

Leverage Plug-and-Play IP68 solar connectors and kickstands to set up within one minute



Comprehensive Warranty

Enjoy a reliable off-grid experience by leveraging the 10-year power warranty and industry-leading warranty

10 Years
Power Warranty

3+2 Years
Material Warranty



Model No.	RSP100LSC	RSP300LSC
Maximum Power at STC	100 W	300 W
Optimum Operating Voltage (Vmp)	18.7 V	25.2 V
Optimum Operating Current (Imp)	5.4 A	11.9 A
Open-Circuit Voltage (Voc)	21.6 V	30.0 V
Short-Circuit Current (Isc)	5.83 A	12.6 A
Module Efficiency	15.2%	17.00%
Dimensions (Unfold)	41.26 x 24.61 x 0.79 in 1,048 x 625 x 20 mm	92.8 x 29.3 x 0.8 in 2,358 x 745 x 20 mm
Dimensions (Folded)	20.59 x 24.61 x 1.57 in 523 x 625 x 40 mm	23.2 x 29.3 x 3.2 in 588 x 745 x 80 mm
Weight	8.86 lbs / 4.02 kg	18.74 lbs / 8.5 kg
Certification	CE, RoHS, FCC, TSCA, CA65, UKCA	
Material and Workmanship Warranty	3-Year	3-Year

CHARGE CONTROLLERS



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.

5
Years
warranty



High Temperature
Protection



Overvoltage
Protection



Undervoltage
Protection



Short Circuit
Protection



Low Temperature
Protection



Reverse
Current Protection



BPU (Battery Portable
Unit) Protection



Reverse Polarity
Protection

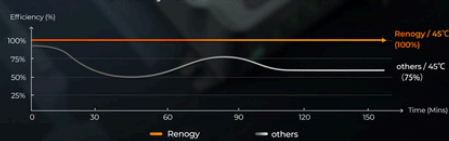


Power Limiting
Protection

**Most Climate-Resilient MPPT
Controller on the Market**

-30°C ~ 65°C
Operating Temperature Range

Efficiency Performance at 45°C Over Time



Compact Size, Maximum Output



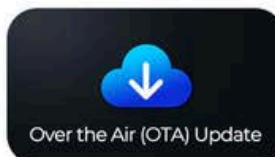
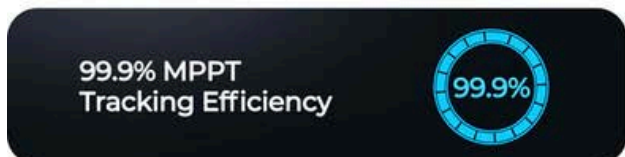
Compatible with All Battery Types



Charger Type	MPPT Charge Controller
Model No.	RCC2430REGO
Battery Type	AGM, GEL, FLD, LI, User
System Voltage	12/24 V
Rated Charge Current	30 A
Input Voltage Range	16 to 100 VDC
Max Solar Input Voltage	100 VDC
Max Solar Input Power	12 V/440 W, 24 V/880 W
Communication	Built-in Bluetooth, RV-C
Operating Temperature Range	-22 °F to 149 °F / -30 °C to 65 °C (Full Rated Output up to 45 °C)
Dimensions	6.65 x 4.80 x 2.36 in / 169 x 122 x 60 mm
Weight	7.93 lbs / 3.6 kg
Certification	CE, R10, FCC, RCM
Warranty	5-Year

Up to 440W
for a 12V System

Up to 1700W
for a 48V System



Charger Type	MPPT Charge Controller
Model No.	RCC30REGO
Battery Type	AGM, GEL, FLD, LI, User
System Voltage	12/24 V/36 V/48 V
Rated Charge Current	30 A
Input Voltage Range	16 to 150 VDC
Max Solar Input Voltage	100 VDC
Max Solar Input Power	12 V/440 W, 24 V/880 W, 36 V/1080 W, 48 V/1700 W
Communication	Built-in Bluetooth, RV-C
Operating Temperature Range	-22 °F to 149 °F / -30 °C to 65 °C (Full Rated Output up to 45 °C)
Dimensions	8.85 x 8.78 x 3.11 in / 225×223×79 mm
Weight	8.6 lb / 3.9 kg
Certification	CE, UKCA, C-TICK
Warranty	5-Year

ULTRA FAST MAXIMUM POWER POINT TRACKING

Up to **99%** Tracking Efficiency

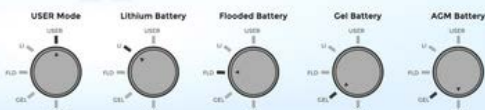


SIMPLE BATTERY TYPE SETUP

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



Battery Terminal 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)**



Charger Type	MPPT Charge Controller
Model No.	RCC60REGO
Battery Type	AGM, GEL, FLD, LI, User
System Voltage	12 V
Rated Charge Current	60 A
Input Voltage Range	16~100 VDC
Max Solar Input Voltage	100 VDC
Max Solar Input Power	12 V/880 W
Communication	Built-in Bluetooth, RV-C
Operating Temperature Range	-22 °F to 149 °F / -30 °C to 65 °C (Full Rated Output up to 45 °C)
Dimensions	9.43 × 7.36 × 4.28 in / 240 × 187 × 109 mm
Weight	4.7 lb / 2.7 kg
Certification	CE, R10, UL
Warranty	5-Year

REVIVE FLAT BATTERIES

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



Charger Type	MPPT Charge Controller		
Model No.	RNG-CTRL-RVR20	RNG-CTRL-RVR40	RNG-CTRL-RVR60
Battery Type	AGM, GEL, FLD, LI, User		
System Voltage	12/24 V	12/24 V	12/24/36/48 V
Rated Charge Current	20 A	40 A	60 A
Input Voltage Range	16 to 100 VDC	16 to 100 VDC	16 to 150 VDC
Max Solar Input Voltage	100 VDC	100 VDC	150 VDC
Max Solar Input Power	12 V/260 W, 24 V/520 W	12 V/520 W, 24 V/1040 W	12 V/800 W, 24 V/1,600 W, 36 V/2,400 W, 48 V/3,200 W
Communication	RS485	RS485	RS485, RS232
Operating Temperature Range	-22 °F to 149 °F / -30 °C to 65 °C (Full Rated Output up to 45 °C)		
Dimensions	8.27 x 5.951 x 2.69 in 210 x 151 x 68 mm	9.37 x 6.81 x 3.11 in 238 x 173 x 79 mm	12 x 8.07 x 3.9 in 305 x 205 x 99 mm
Weight	3.1 lbs / 1.4 kg	4.41 lbs / 2.0 kg	7.72 lbs / 3.6 kg
Certification	CE, RoHS, FCC, C-TICK, RCM	CE, RoHS, UL, FCC, C-TICK, RCM	CE, RoHS, UKCA, UL, C-TICK, RCM
Warranty	3-Year		

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.

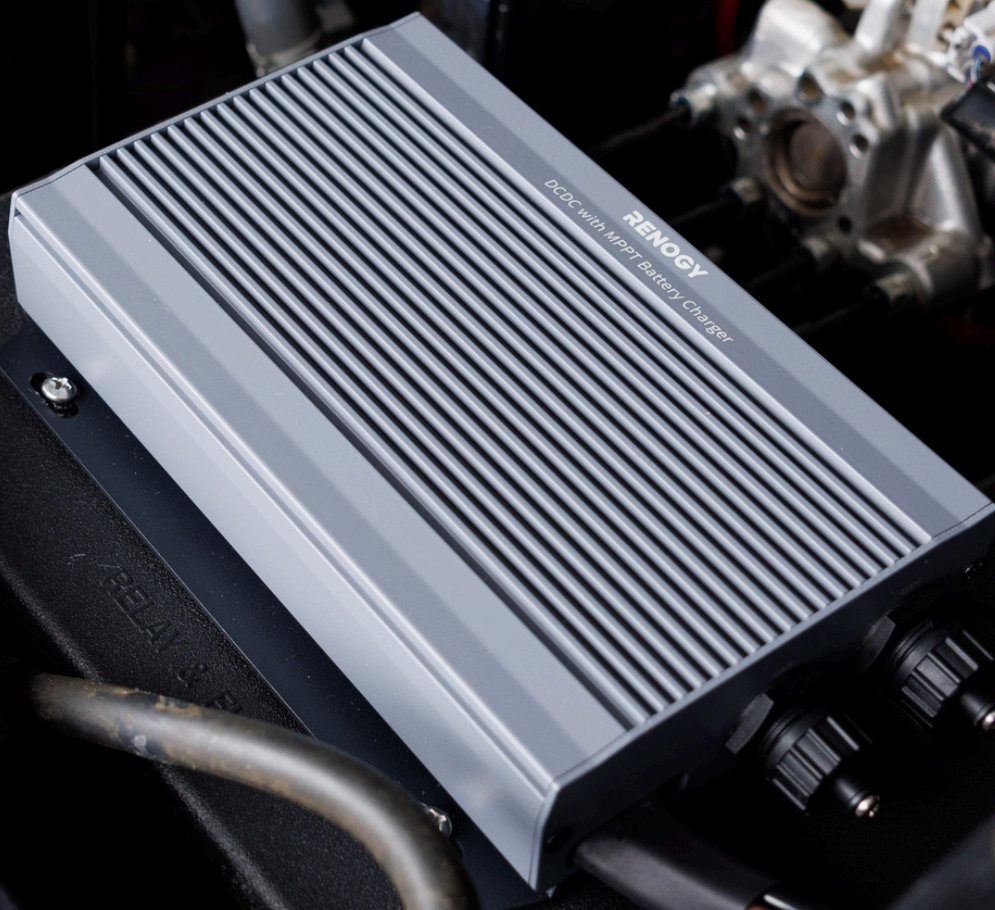
In summary, PWM controllers offer affordability for simpler setups, while MPPT controllers excel in efficiency and are ideal for maximizing performance in complex systems.



Battery Chargers

Renogy offers a full range of charging solutions to keep your system powered anywhere. From DC-DC chargers for vehicle-to-battery charging to AC-DC chargers for shore power, our products support all battery types in both 12V and 24V systems. For maximum versatility, Renogy also provides a 2-in-1 DC-DC charger with integrated MPPT, combining solar and alternator charging in one smart, reliable device.

BATTERY CHARGERS





Universal Battery Support

Compatible with a variety of 12V batteries including Lithium, AGM, Gel, Flooded, and user-defined options.



Lithium Battery Activation Feature

Safely "wakes up" lithium batteries that have entered sleep mode by supplying a small activation current.

Renogy REGO 12V 35A AC-DC Smart Battery Charger

Adaptive 4-Stage Smart Charging

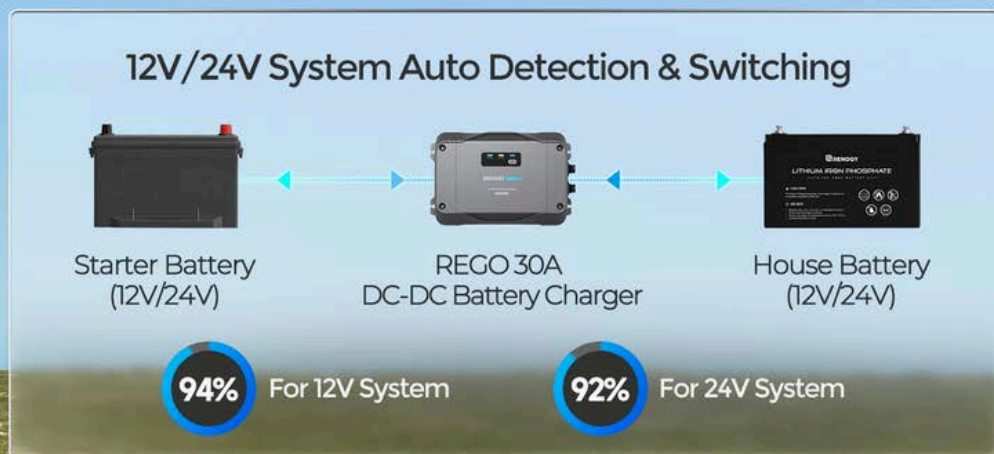
- Utilizes Bulk, Boost, Float, and Equalization stages to ensure safe, efficient charging. This helps maximize battery life by automatically adjusting voltage and current based on battery condition and type.
- The charging current is adjustable from 5A to 35A to suit various battery sizes and applications.

LED Status Indicators & Renogy App

- Clearly labelled LED lights provide instant feedback on battery type, charging status, and system faults. Visual alerts make it easy to understand what's happening at a glance.
- With the optional Bluetooth BT-2 Module, you can unlock full app-based control via the Renogy App.



Charger Type	AC-DC Battery Charger
Model No.	RACC35A1W
Battery Type	AGM/SLD, GEL, FLD, LI, User
Input Voltage Range	180 to 264 VAC, 45 Hz to 65 Hz
Max Input Current	/
Rated Charging Power	510 W
Output Voltage	9 to 16 VDC
Output Current	35A
Communication	RS485
Operating Temperature Range	-4 °F to 140 °F / -20 °C to 60 °C
Dimensions	8.98 x 6.3 x 2.83 in / 228 x 160 x 72 mm
Weight	6.61 lbs / 3 kg
Cable Management	AC Cable Length: 47.24 in / 1200 mm AC Cable Size: 12 AWG
Ingress Protection	IP32
Certification	CE, RoHS, CA65, C-TICK, RCM
Warranty	3-Year



No Compromises on Safety

Certified safe with multiple protections for both input and output,
5-year warranty for peace of mind



Most Climate-Resilient Battery Charger on the Market

-31°F ~ 149°F
Recommended Operating
Temperature



Monitor and Customize Your Charging

One solution that works across 12V and 24V systems with automatic
voltage detection



Charger Type	DC-DC Battery Charger	
Model No.	RBC2115DS-21W	RBC1260DO-12B
Battery Type	AGM/SLD, GEL, FLD, LI, User	
System Voltage	12 V/24 V	12 V
Rated Charge Current	30A@12V Systems, 15A@24V Systems	60 A
Rated Charge Power	450 W	800 W
Alternator Input Voltage Range	9 V to 32 VDC	10 V to 16 VDC
Output Voltage Range	9 V to 32 VDC	10 V to 16 VDC
Communication	RV-C, Built-in Bluetooth, RS485	
Operating Temperature	-31 °F to 176 °F / -35 °C to 80 °C (Full Rated Output up to 131 °F / 55 °C)	-4 °F to 140 °F / -20 °C to 60 °C (Full Rated Output up to 113 °F / 45 °C)
Ingress Protection	IP43	
Dimensions	9.41 x 6.15 x 2.74 in 239 x 156.3 x 69.5 mm	13.78 x 8.39 x 4.02 in 350 x 213 x 102 mm
Weight	3.72 lbs / 1.69 kg	7 lbs / 3.12 kg
Certification	CE, RoHS, R10, FCC, C-TICK, RCM	CE, R10, UKCA, UL, SAA, C-TICK, RCM
Warranty	5-Year	5-Year

Lithium Battery Activation **OFF**

Prevent unnecessary charging cycles on batteries that are already functioning normally, reducing overcharging and excessive use.

Advanced Parameters

Lithium Activation

Off

Equalization Voltage

0 V

>

Lithium Battery Activation **ON**

Restore lithium batteries that are in a low-voltage state extending their lifespan and enhancing performance.

Advanced Parameters

Lithium Activation

On

Equalization Voltage

13.44 V

>



Charger Type	DC-DC Battery Charger	
Model No.	RBC20D1U	RBC40D1U
Battery Type	AGM/SLD, GEL, FLD, LI, User	AGM/SLD, GEL, FLD, LI, User
System Voltage	12 V	12 V
Rated Charge Current	20 A	40 A
Rated Charge Power	300 W	600 W
Alternator Input Voltage Range	9 V to 16 VDC	9 V to 16 VDC
Output Voltage Range	9 V to 16 VDC	9 V to 16 VDC
Communication	RS485	
Operating Temperature	-13 °F to 140 °F / -25 °C to 60 °C (Full Rated Output up to 113 °F / 45 °C)	
Ingress Protection	IP20	IP20
Dimensions	9.31 x 5.17 x 2.30 in 236.5 x 131.5 x 58 mm	9.31 x 6.00 x 2.30 in 236.5 x 152.5 x 58 mm
Weight	2.71 lbs / 1.23 kg	3.17 lbs / 1.44 kg
Certification	CE, RoHS, R10, UKCA, FCC, C-TICK, RCM	
Warranty	2-Year	2-Year

- Alternator Running Detection: Protects the starter battery by intelligently managing charge flow.
- Compact, User-Friendly Design: Simplifies installation in tight or complex systems.
- Bluetooth 2.0 Connectivity: Enables convenient remote monitoring and system insights.
- Comprehensive Protection Features: Delivers efficient, stable, and safe charging performance.
- Lithium Battery Activation Mode: Supports customizable startup options for Lithium-ion batteries.



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

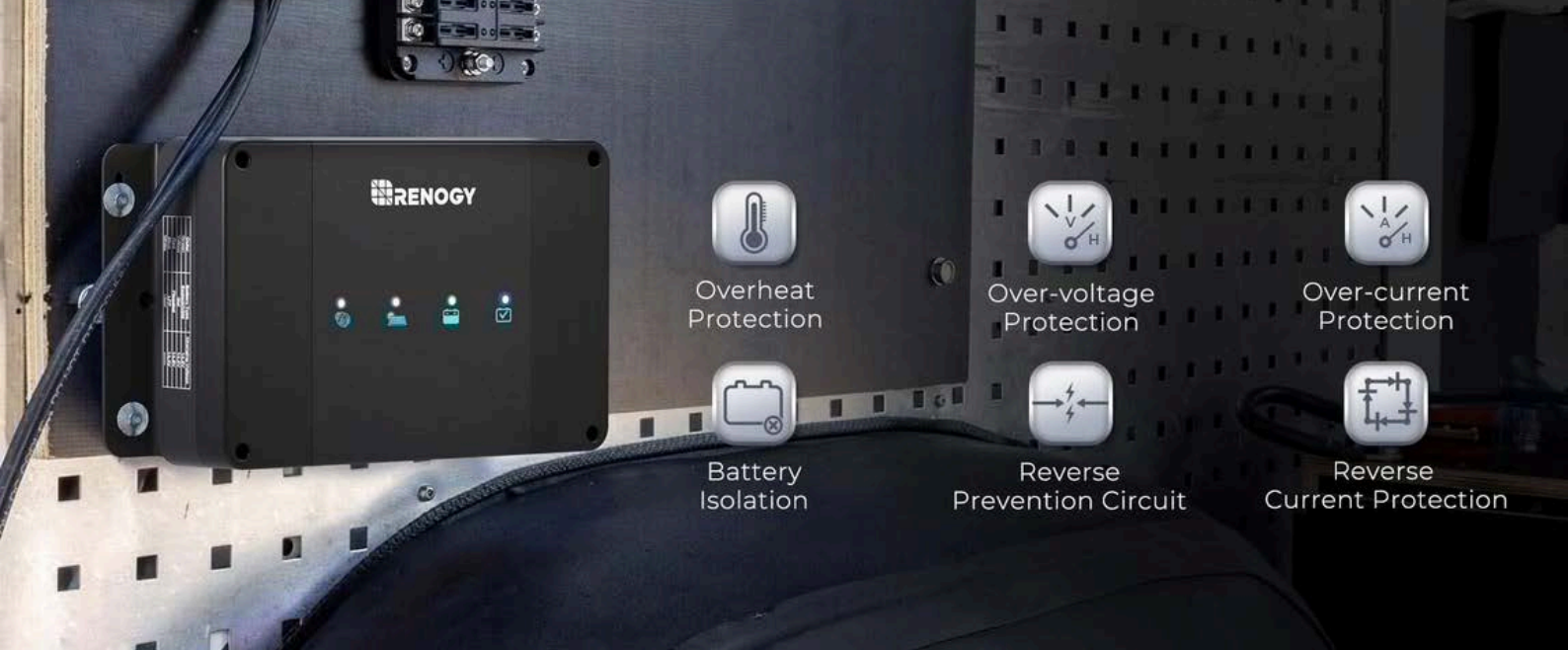


Charging Mode Auto-Switching

Automatically change the charging mode according to the intensity of solar power



Charger Type	DC-DC Battery Charger with MPPT
Model No.	RBC2125DS-21W
Battery Type	AGM/SLD, GEL, FLD, LI, User
System Voltage	12 V/24 V
Rated Charge Current	50 A
Rated Charge Power	720 W
Alternator Input Voltage Range	9-32 VDC
Auxiliary Battery Charging Power	720 W
Max.Solar Input Voltage	50 V
Max.Solar Input Power	720 W
Output Voltage Range	9 V to 32 VDC
Output Power	720 W
Communication	RV-C, Built-in Bluetooth
Operating Temperature Range	-31 °F to 176 °F / -35 °C to 80 °C (Full Rated Output up to 131 °F / 55 °C)
Dimensions	7.01 x 4.7 x 1.47 in / 178.2 x 121.5 x 37.5 mm
Weight	3.35 lb / 1.52 kg
Certifications	CE, RoHS, R10, FCC, C-TICK, RCM
Warranty	5-Year



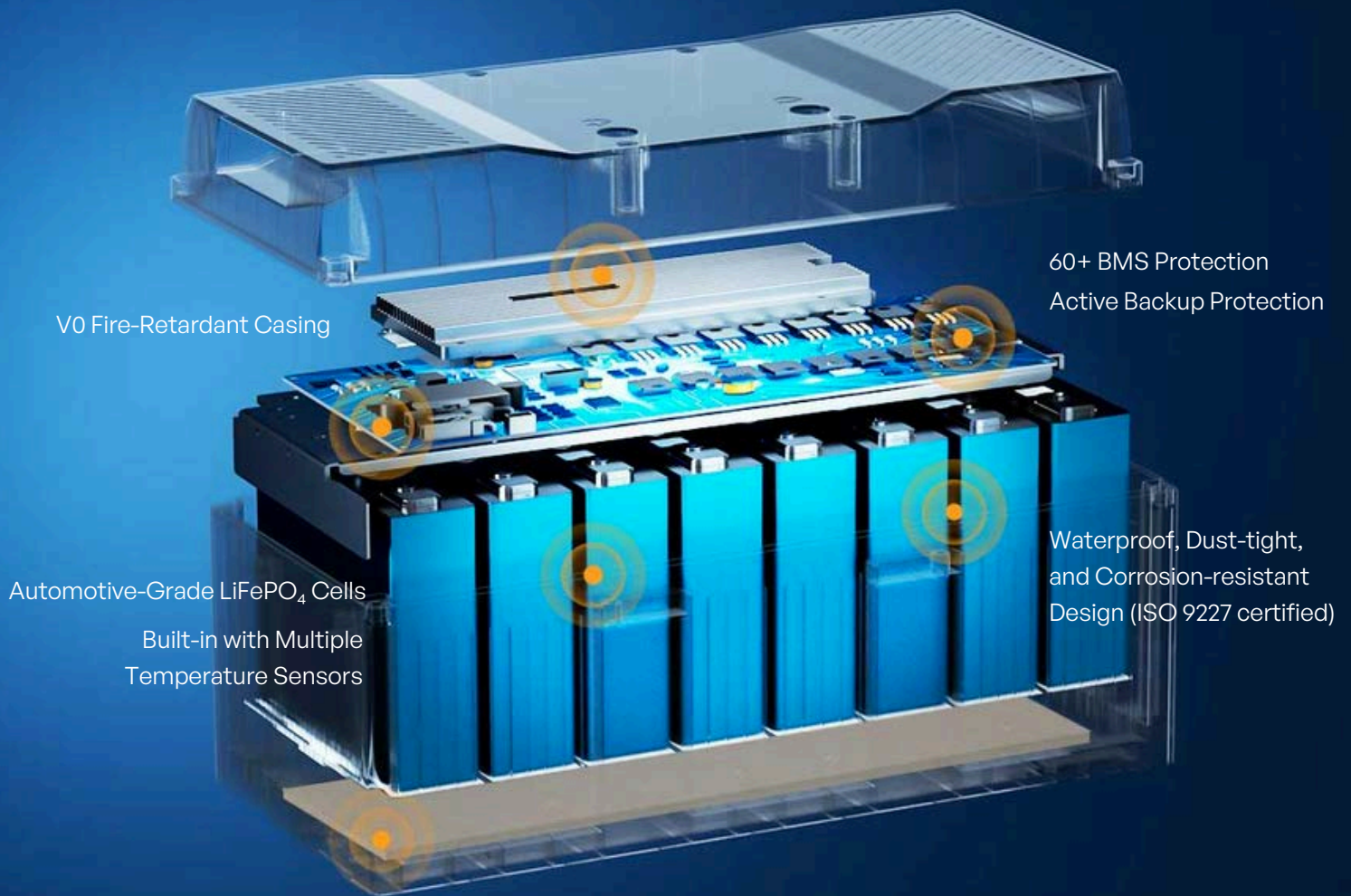
Charger Type	DC-DC Battery Charger with MPPT	
Model No.	RBC30D1S	RBC50D1S
Battery Type	AGM/SLD, GEL, FLD, LI, User	
System Voltage	12 V	
Rated Charge Current	30 A	50 A
Rated Charge Power	400 W	660 W
Alternator Input Voltage Range	9-16 VDC	
Auxiliary Battery Charging Power	400 W	660 W
Max.Solar Input Voltage	30 V	50 V
Max.Solar Input Power	400 W	660 W
Output Voltage Range	9 V to 16 VDC	
Output Power	400 W	660 W
Communication	RS485	
Operating Temperature Range	-31 °F to 149 °F / -35 °C to 65 °C (Full Rated Output up to 113 °F / 45 °C)	
Dimensions	9.61 x 5.75 x 3.03 in 244 x 146 x 77 mm	9.61 x 5.75 x 3.78 in 244 x 146 x 96 mm
Weight	3.11 lbs / 1.41 kg	4.10 lbs / 1.86 kg
Certifications	CE, RoHS, UKCA, UL, FCC, SAA, C-TICK, RCM	
Warranty	3-Year	3-Year

Lithium Batteries

Renogy offers a full range of advanced lithium batteries designed for every application. From CORE to PRO to the smart REGO Series, our lineup covers LiFePO₄ and next-generation Solid-State technologies in multiple sizes to fit 12V and 24V systems. Built with high-quality cells and equipped with advanced Battery Management Systems (BMS), every Renogy battery delivers superior safety, reliability, and long-lasting performance for off-grid power.



BATTERIES



What Makes Renogy Lithium Batteries the Best Choice for Mobile Living

Automotive-Grade LiFePO₄ Cells

Built for stable, long-lasting performance.

Rugged, Vibration-Resistant Design

Handles bumps, shock, and temperature swings.

Smart Built-In BMS (Battery Management System)

Provides intelligent protection against overcharging, deep discharging, overheating, and short circuits.

Self-Heating for Cold Weather (Select Models)

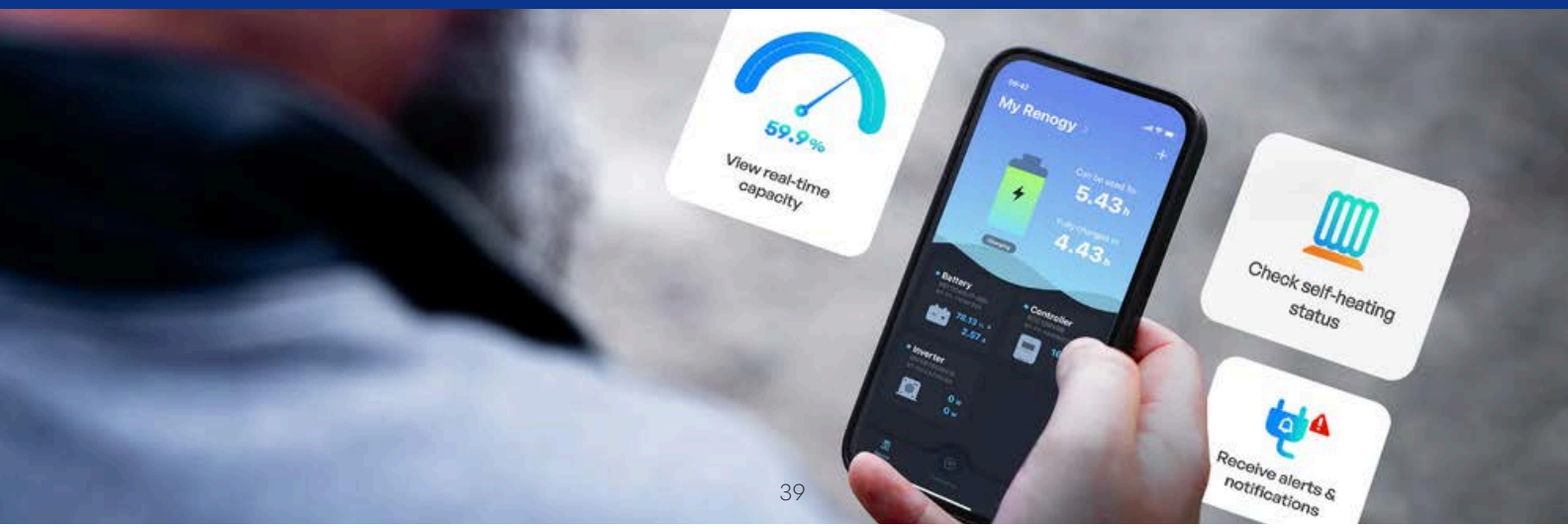
Warms automatically for safe charging in freezing temps.

Lightweight, Space-Saving

Compact and easy to install in tight builds.

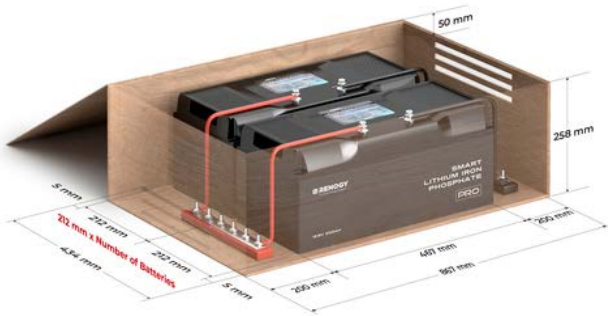
App Monitoring Ready (Select Models)

Bluetooth and Renogy ONE compatible.



Renogy Pro Series LiFePO4 Batteries

Where pro-level safety meets serious performance.



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

Power to Beat the Cold



- ✓ Auto-heating below 41°F
- ✓ Self-Heating with **Overheat Protection**
- ✓ No extra installation

VS

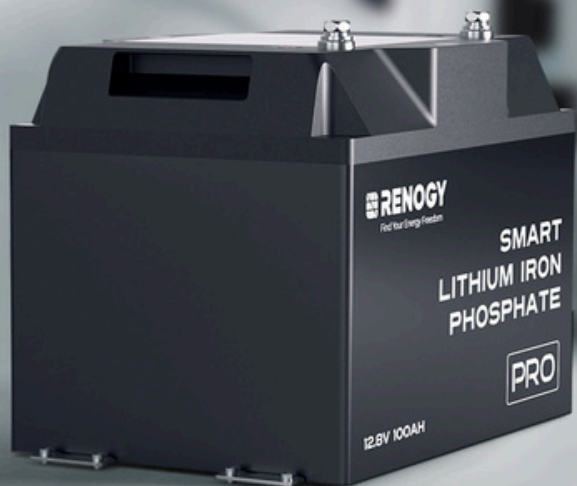


- ✗ Manual control needed
- ✗ Heat barely reaches the cells
- ✗ Installation required



- ✓ IEC 62619 – International safety standard for lithium-ion rechargeable batteries
- ✓ MSDS – Material Safety Data Sheet
- ✓ UN38.3 – Standard for safe transport of lithium batteries
- ✓ FCC – U.S. Federal Communications Commission compliance
- ✓ CE – EU Conformité Européenne marking
- ✓ PSE – Japan's Product Safety Electrical Appliance & Material certification
- ✓ UKCA – United Kingdom Conformity Assessed mark





PRO

Renogy Pro Lithium Battery features built-in Bluetooth for seamless remote monitoring via the Renogy App and Renogy ONE Core, along with a self-heating function that ensures safe charging in cold climates. With a lifespan of over 5,000 cycles, it's built for long-term reliability and all-season adventures.

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 and 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 Cell Type	Prismatic	Prismatic
Connection	Parallel (Up to 8)	Parallel (Up to 8)
Rated Voltage	12.8 V	12.8 V
Rated Capacity (0.5C, 25°C)	100 Ah	200 Ah
Voltage Range	10-14.8 V	10-14.8 V
Cycle Life (0.5C, 25°C)	5,000 Cycles (80% DOD, 80% EOL)	
Maximum Continuous Charge Current	100 A	200 A
Maximum Continuous Discharge Current	100 A	200 A
Peak Discharge Current	245A@30s	270A@30s
Charge Temperature	-4 °F to 131 °F / -20 °C to 55 °C	-4 °F to 131 °F / -20 °C to 55 °C
Discharge Temperature	-4 °F to 140 °F / -20 °C to 60 °C	-4 °F to 140 °F / -20 °C to 60 °C
Housing Material	ABS+PC	ABS+PC
Weight	26.90 lbs / 12.2 kg	50.71 lbs / 23.0 kg
Dimensions (L x W x H)	10.6 x 7.6 x 8.1 in 268 x 193 x 205 mm	18.4 x 8.4 x 8.2 in 467 x 212 x 208 mm
Communication Protocol	Bluetooth	Bluetooth
Self-Heating	Yes	
Certifications	CE, RoHS, R10, FCC, IC, PSE, MIC ID, UKCA, RCM-EMC, UN38.3, MSDS	
Warranty	7-Year	7-Year

Renogy Core Mini Series LiFePO4 Battery

Compact Size, Mighty Power



Fits in common 4D battery boxes



Fits in common 8D battery boxes



Upgraded BMS



Overvoltage
Protection



Undervoltage
Protection



High Temperature
Protection



Low Temperature
Protection



Overcurrent
Protection



Short Circuit
Protection



Class A
Cell



Higher Energy
Density



High Temperature
Protection

UK
CA

FC

UN38.3

CE

PS
E

MSDS





Monitor via DC Home app



Monitor via Renogy ONE Core

3. A Renogy 300A Battery Shunt is required for Bluetooth connectivity. Sold separately.

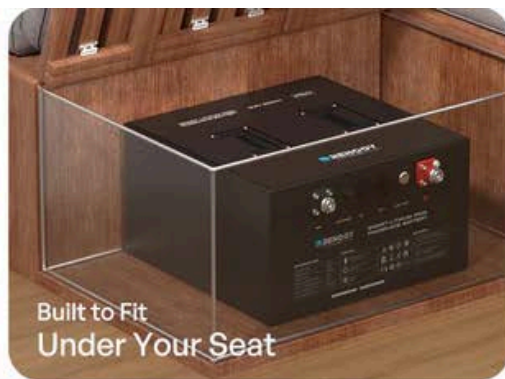
Model No.	RBT12100LFP-M	RBT12200LFP-M	RBT12300LFP-M
Battery Cell Type	Prismatic	Prismatic	Prismatic
Connection	Series & Parallel (4P4S)	Parallel (Up to 8) Series & Parallel (4P4S)	Series (Up to 4) Parallel (Up to 8) Series & Parallel (4P4S)
Rated Voltage	12.8 V	12.8 V	12.8 V
Rated Capacity (0.5C, 25°C)	100 Ah	200 Ah	300 Ah
Voltage Range	10-14.8 V	10-14.8 V	10-14.8 V
Cycle Life (0.5C, 25°C)	5,000 Cycles (80% DOD)		
Maximum Continuous Charge Current	100 A	120 A	150 A
Maximum Continuous Discharge Current	100 A	200 A	200 A
Peak Discharge Current	300A@5s	380A@10s	380A@10s
Charge Temperature	32 °F to 122 °F 0 °C to 50 °C	32 °F to 131 °F 0 °C to 55 °C	32 °F to 140 °F 0 °C to 60 °C
Discharge Temperature	-4 °F to 131 °F -20 °C to 55 °C	-4 °F to 149 °F -20 °C to 65 °C	-4 °F to 149 °F -20 °C to 65 °C
Housing Material	ABS	ABS	ABS+PC
Weight	21.8 lbs / 9.9 kg	42.44 lbs / 19.25 kg	55.1 lbs / 25.0 kg
Dimensions (L x W x H)	9.02 x 5.43 x 8.39 in 229 x 138 x 213 mm	15.12 x 7.64 x 9.96 in / 384 x 194 x 253 mm	
Certifications	CE, RoHS, R10, FCC, IC, UKCA, RCM-EMC, RCM, UN38.3, MSDS		
Warranty	5-Year		

UNDER-SEAT BATTERY

The Renogy Pro Lithium Battery is engineered for seamless under-seat installation, particularly in vehicles built on the popular FIAT Ducato chassis.

As part of Renogy's high-performance DIN-series, it delivers a compact and rugged power solution designed for reliable mobile energy in demanding environments.





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.



Model No.	RBT12135LFP-SHBT	RBT12200LFP-SHBT	RBT12500LFP-SHBT
Battery Cell Type	Prismatic	Prismatic	Prismatic
Connection	Series (Up to 4); Parallel (Up to 8) Series & Parallel (4P4S)		Parallel (Up to 8)
Rated Voltage	12.8 V	12.8 V	12.8 V
Rated Capacity (0.5C, 25°C)	135 Ah	200 Ah	500 Ah
Voltage Range	10-14.8 V	10-14.8 V	10-14.8 V
Cycle Life (0.5C, 25°C)	4,000 Cycles (80% DOD, 80% EOL)		3,500
Max. Continuous Charge Current	135 A	200 A	200 A
Max. Continuous Discharge Current	135 A	200 A	250 A
Peak Discharge Current	350A@3s	380A@10s	300A@10s
Charge Temperature	-4 °F to 131 °F -20 °C to 55 °C	-4 °F to 131 °F -20 °C to 55 °C	-4 °F to 131 °F -20 °C to 55 °C
Discharge Temperature	-4 °F to 122 °F -20 °C to 50 °C	-4 °F to 122 °F -20 °C to 50 °C	-4 °F to 140 °F -20 °C to 60 °C
Housing Material	ABS	SPCC	
Weight	31.97 lbs / 14.5 kg	50.71 lbs / 23.0 kg	110.23 lbs / 53 kg
Dimensions (L x W x H)	13.98 x 6.97 x 7.48 in 355 x 177 x 190 mm	14.37 x 8.86 x 7.48 in 365 x 225 x 190 mm	14.0 x 13.8 x 7.8 in 355 x 350 x 198 mm
Communication Protocol	Bluetooth		CAN/Bluetooth
Self-Heating	Yes		
Certifications	CE, RoHS, R10, UN38.3, MSDS		CE, R10, PSE, UKCA, RCM, UN38.3
Warranty	7-Year		

NEW 2026

Renogy Solid-State Lithium Iron Phosphate Batteries

The World's **1st** Smart and Portable
Solid State Batteries for Mobile Energy Storage

Certified by Frost & Sullivan



Technology at a Glance

All three batteries adopt solid-state cell technology — a market-leading innovation designed for extreme reliability and performance.

EV-Grade Solid-State LiFePO₄ Cell

Featuring 70% less flammable electrolytes than traditional LiFePO₄ and a cycle life of over 6000 cycles for superior safety and longevity.



10wt% Electrolyte Content

Wide Operating Temperature Range

-Heating film enables cell self-heating from -20°C to 0°C / -4°F to 32°F

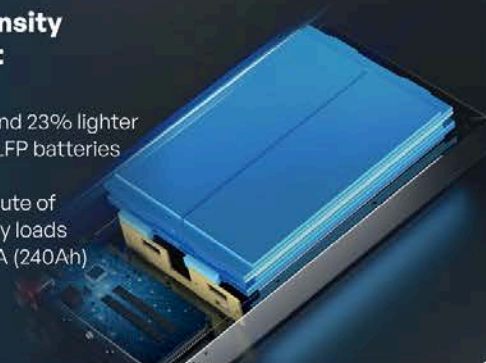
-Semi-solid separator withstands 300°C, ensuring thermal stability



High Energy Density & Power Output

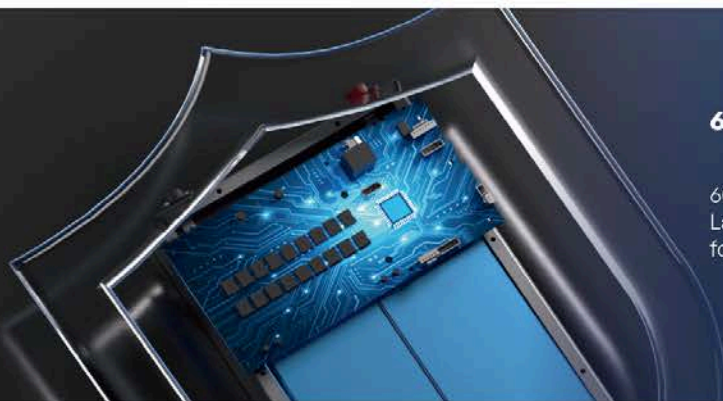
-Up to 20% smaller and 23% lighter than same-capacity LFP batteries

-Supports up to 1 minute of operation under heavy loads of 165A (120Ah) / 250A (240Ah)



60+ BMS Protections

60+ Advanced BMS Protections Including High-Temp Layered Safeguards and Dual-Stage Active Fuses for Enhanced Battery Life and Safety.



Durable & Safe Enclosure Design

-UL94 V-0 flame-retardant

-IP67 waterproof & dustproof



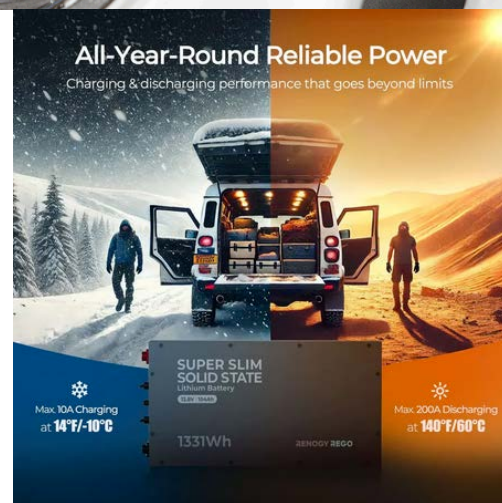
Smart Monitoring & Remote OTA

-Bluetooth stable bidirectional transmission

-App real-time monitoring & remote OTA

-Supports high-speed CAN bus communication





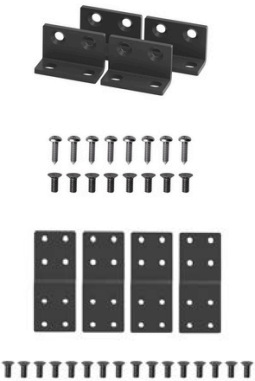
Model No.	RBT12104LFP-SSBH
Battery Cell Type	Pouch
Connection	Series (Up to 4) Parallel (Up to 16) Series & Parallel (4P4S)
Rated Voltage	12.8 V
Rated Capacity (0.5C, 25°C)	104 Ah
Voltage Range	10-14.8 V
Cycle Life (0.5C, 25°C)	6,000 Cycles (80% DOD, 80% EOL)
Max. Continuous Charge Current	100 A
Max. Continuous Discharge Current	200 A
Peak Discharge Current	290A@30s
Charge Temperature	-4 °F to 131 °F / -20 °C to 55 °C
Discharge Temperature	-4 °F to 140 °F / -20 °C to 60 °C
Housing Material	Aluminum Alloy
Weight	29.5 lbs / 13.38 kg
Dimensions (L x W x H)	22.8 x 11.4 x 2.4 in / 579 x 290 x 61 mm
Communication Protocol	CAN and Bluetooth
Self-Heating	Yes
Certifications	CE, RoHS, R10, FCC, IC, PSE, UKCA, RCM, UN38.3, MSDS
Warranty	8-Year

Single Battery Fix Accessory Kit

Model No. RMT12104BT-SB
Accessory Kit for mounting the battery securely on a flat surface

Holder Accessory Kit

Model No. RMT12104BT-MB
Enables two batteries to be installed in a stacked configuration.



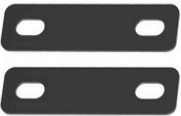
A Two Holes Busbar

Model No. RMT12104BT-2PB-SG
Attaches to the battery’s positive and negative terminals to ensure stable current flow.



A Pair of Two Holes Busbar

Model No. RMT12104BT-2PB
Designed for series or parallel battery configurations, it connects to the positive and negative terminals, replacing cables.



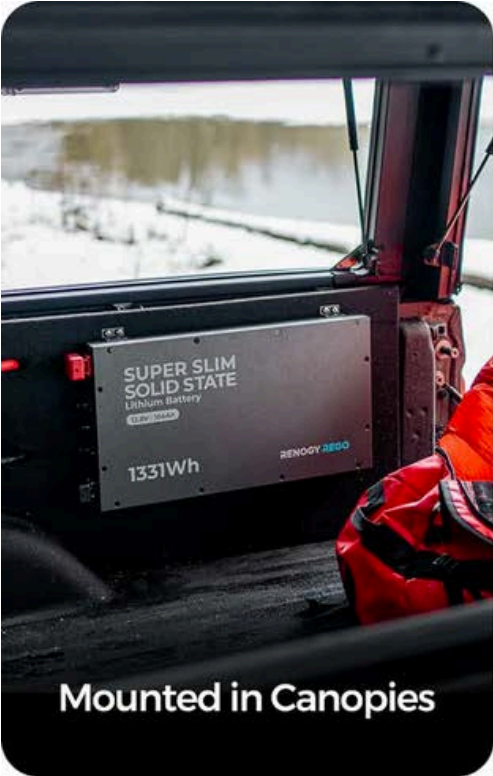
A Pair of Three Holes Busbar

Model No. RMT12104BT-3PB-SG



A Pair of Four Holes Busbar

Model No. RMT12104BT-4PB



2X longer
lifespan

compared with the average lithium batteries

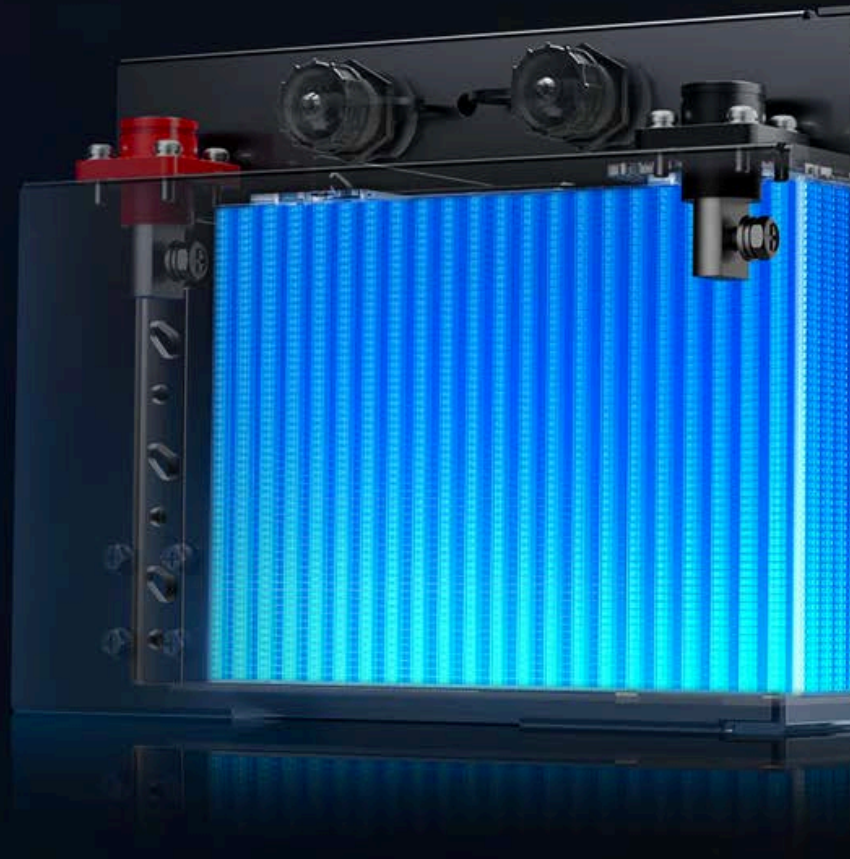
Renogy

6000 cycles

Others

3000 cycles

7-year warranty



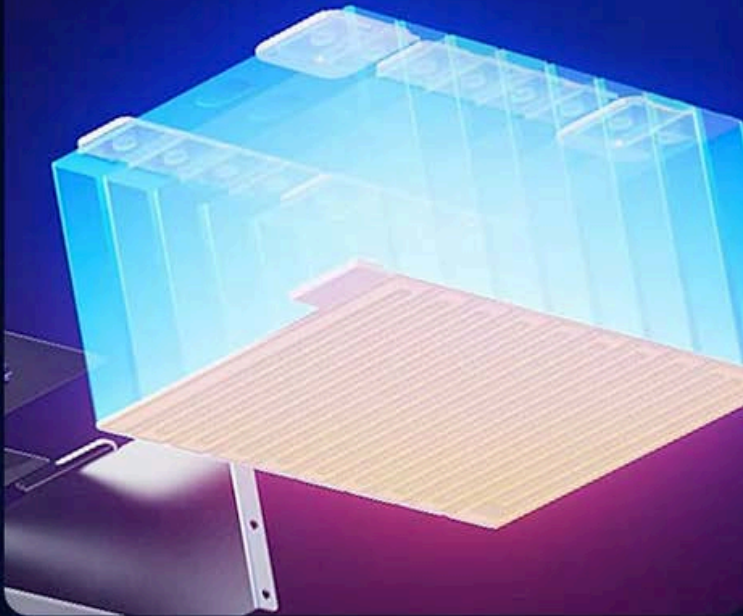
Model No.	RBT12120LFP-SBH	RBT12240LFP-SBH
Battery Cell Type	Prismatic	Prismatic
Connection	Series (Up to 4) Parallel (Up to 16) Series & Parallel (4P4S)	
Rated Voltage	12.8 V	12.8 V
Rated Capacity (0.5C, 25°C)	120 Ah	240 Ah
Voltage Range	10.8-14.6 V	10.8-14.6 V
Cycle Life (0.5C, 25°C)	6,000 Cycles (80% DOD, 80% EOL)	6,000 Cycles (80% DOD, 80% EOL)
Max. Continuous Charge Current	120 A	240 A
Max. Continuous Discharge Current	150 A	240 A
Peak Discharge Current	350A@30s	450A@30s
Charge Temperature	-4 °F to 131 °F / -20 °C to 55 °C	-4 °F to 131 °F / -20 °C to 55 °C
Discharge Temperature	-4 °F to 140 °F / -20 °C to 60 °C	-4 °F to 140 °F / -20 °C to 60 °C
Housing Material	Aluminum Alloy	
Weight	29.5 lbs / 13.4 kg	56.22 lbs / 25.5 kg
Dimensions (L x W x H)	12.8 x 7.44 x 7.4 in 325 x 189 x 188 mm	15.94 x 9.61 x 7.4 in 405 x 244 x 188 mm
Communication Protocol	CAN and Bluetooth	CAN and Bluetooth
Self-Heating	Yes	
Certifications	CE, RoHS, R10, FCC, IC, PSE, UKCA, UN38.3, MSDS	
Warranty	7-Year	

Next-Gen Safety

Secure your off-grid power with leading tech to hold up in difficult conditions

70% ↓
Liquid Electrolytes *
to reduce thermal runaway

**Hybrid Semi-Solid
State Cells**
with **10wt%** liquid electrolytes



*Compared with typical liquid-based lithium batteries.

*The number of levels may vary from different BMS protection. For example, the High Temperature Protection (Discharging) has two levels.



Swapping your AGM battery for a Solid-State 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.

Watch the brutal test video: cell punctures, sub-zero charging, and direct flames—see how Renogy's ultra-thin solid-state battery takes it all.

Watch Video



Conquer the Winds. Resist Every Splash.

Renogy 12V 100ah Trolling Motor LiFePO4 Battery
with Bluetooth



Made for Trolling Motors

Fully compatible with Minn Kota and other major trolling motor brands. Run a single battery for 30-55 lb motors, two in series for 70-90 lb motors, or three in series for 112-115 lb motors.

Total Boat Weight (LB)	Boat Length (FT)	Minimum LB of Thrust	Voltage
1,599 or less	14'	30-40	12V
1,600 -2,599	16'-17'	40-55	12V
2,600 -3,599	17'-18'	70-80	24V
3,600-4,599	18'-19'	80-90	24V
4,600-5,599	20'-23'	112-115	36V
5,600 or 9,999	24'-28'	112-115	36V
10,000-15,000	28'-35'	115	36V

The Renogy 12V 100Ah Trolling Motor LiFePO4 Battery meets global safety certifications, including MSDS, UN38.3, IC, FCC, CE, PSE, RCM, RoHS, and UKCA.



Bluetooth 5.3

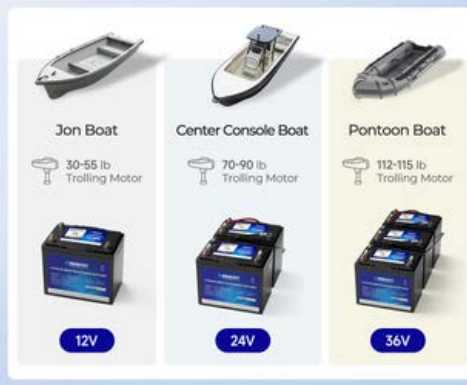
Full Power, Absolute Control

Up to 1920W (150A) continuous output with a 300A surge for 30 seconds



Tailored for 12V-36V Trolling Motors

100% compatible with Minn Kota's trolling motors and more



Low Temperature Cut-Off Protection

≤ 32°F (0°C)
Charging Off

≥ 41°F (5°C)
Charging Recovery

≤ -4°F (-20°C)
Discharging Off



Model No.	RBT12100LFP-TM-BT
Battery Cell Type	Prismatic
Connection	Series (Up to 4); Parallel (Up to 4); Series & Parallel (4P4S)
Rated Voltage	12.8 V
Rated Capacity (0.5C, 25°C)	100 Ah
Voltage Range	10-14.6 V
Cycle Life (0.5C, 25°C)	5,000 Cycles (80% DOD)
Max. Continuous Charge Current	100 A
Max. Continuous Discharge Current	150 A
Peak Discharge Current	300A@30s
Charge Temperature	32 °F to 131 °F / 0 °C to 55 °C
Discharge Temperature	-4 °F to 131 °F / -20 °C to 55 °C
Housing Material	ABS
Weight	21.83 lbs / 9.9 kg
Dimensions (L x W x H)	10.24 x 6.61 x 8.23 in / 260 x 168 x 209 mm
Communication Protocol	Bluetooth
Self-Heating	No
Certifications	CE, RoHS, FCC, IC, PSE, UKCA, RCM, UN38.3, MSDS
Warranty	5-Year



- Play 2+ Rounds on a Single Charge: easily complete two full 18-hole rounds without recharging.
- Powerful 400A Surge Output: delivers up to 400A for 30 seconds—perfect for climbing hills or powering through tough terrain.
- Smart 5-Day Auto-Off Feature: automatically shuts down after 5 days of inactivity to prevent battery drain and extend lifespan.
- Built-In FireFade™ Auto Extinguisher: integrated fire suppression for enhanced safety and peace of mind.
- Complete Installation Kit Included: comes with premium accessories for a quick, hassle-free setup right out of the box.

Renogy Battery w/ Auto-Off Feature



Day 1



Day 5



Auto-Off

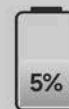
Day 15



Other Batteries



Day 1



Day 15



Dead

Renogy 48V 105Ah Golf Cart LiFePO4 Battery

Drive Further, Play Longer



Upgrade your golf cart with lithium batteries for longer life, faster charging, lighter weight, and zero maintenance—delivering reliable power and performance every time you hit the course.

Model No.	RBT48105LFP-GC
Battery Cell Type	Prismatic
Rated Voltage	51.2 V
Rated Capacity (0.5C, 25°C)	105 Ah (0.5 C, 25 °C)
Voltage Range	40 - 58.4 V
Cycle Life (0.5C, 25°C)	5000 Cycles (80% DOD, 80% EOL)
Max. Continuous Charge Current	15 A to 105 A
Max. Continuous Discharge Current	210 A
Peak Discharge Current	400A@30s
Charge Temperature	32 °F to 113 °F / 0 °C to 45 °C
Discharge Temperature	-4 °F to 140 °F / -20 °C to 60 °C
Housing Material	ABS
Weight	106 lb / 48.5 kg
Dimensions (L x W x H)	15.59 x 12.99 x 10.63 in / 395 × 330 × 270 mm
Communication Protocol	Bluetooth
Self-Heating	No
Certifications	CE, FCC, IC, UKCA, UN38.3, MSDS
Warranty	5-Year

Battery Charger Specs	
Nominal Charge Voltage	51.2 V
Maximum Charge Voltage	58.4 V
Maximum Continuous Discharge Current	20 A
AC Input Voltage Range	90 V to 264 V
Operating Temperature	-40 °C to 50 °C
Protection Rating	IP66
Dimensions	282 x 146 x 82.4 mm

Inverters and Inverter Chargers

Renogy leads the industry with advanced inverter and inverter charger solutions designed for reliable, efficient off-grid power. Engineered with premium features such as intelligent power-saving modes, seamless automatic transfer switching, and optional connectivity via devices like the BT-2 for real-time monitoring, Renogy systems deliver both performance and convenience.

INVERTERS



Advanced Materials and Design

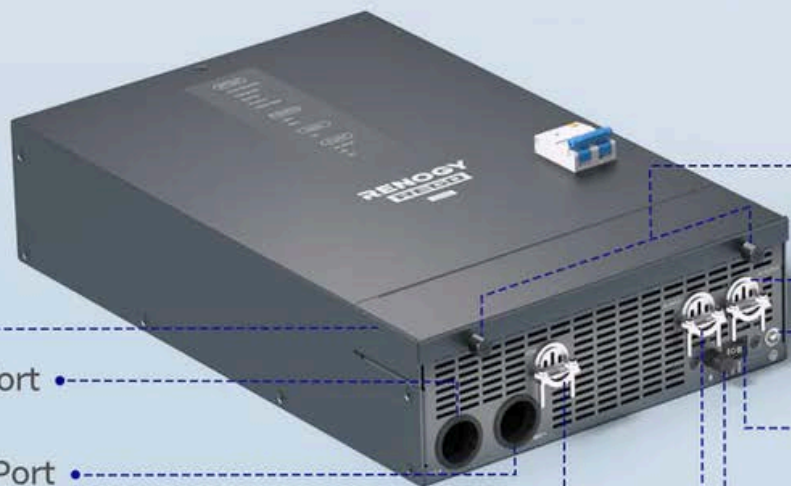
Automotive grade components for reduced weight and enhanced durability



Renogy offers a full range of reliable **pure sine wave inverters** and **2-in-1 inverter chargers** in **12V, 24V, and 48V options**—built to efficiently convert DC to AC power for off-grid, mobile, and backup applications. Engineered with advanced safety features and smart technology, they deliver clean, dependable energy wherever you need it.

- Intelligent CPU control for optimal efficiency
- Auto-transfer switch in inverter charger models for uninterrupted power
- Programmable charging profiles to suit lithium, AGM, and other battery types
- Durable & Compact Design: Rugged aluminum housing with quiet operation—ideal for RVs, cabins, and mobile workstations.
- Remote Monitoring & Control: Compatible with Renogy ONE Core and Renogy App for real-time performance monitoring and remote settings adjustment (select models).
- Certifications & Reliability: Built to meet global standards including CE, ETL, RCM, UKCA, and FCC, ensuring reliable and safe operation.

Explicit Side Panel Design

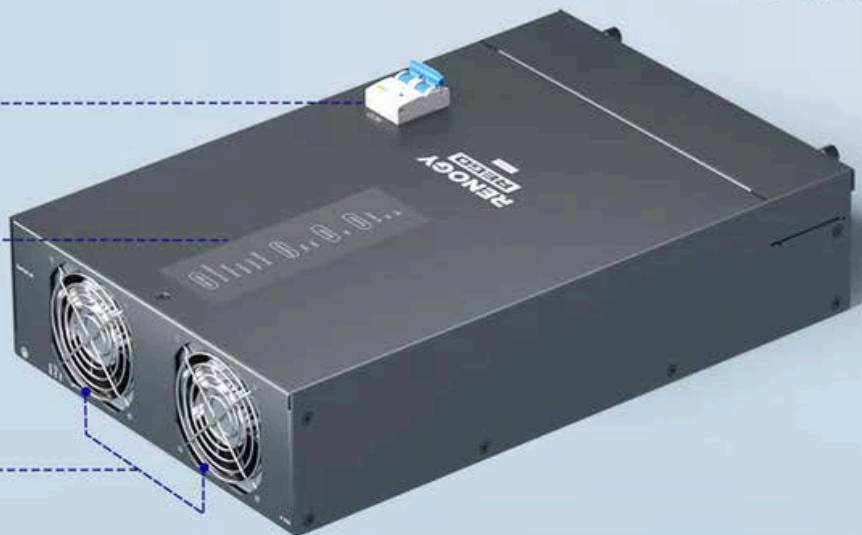


- Cover
- Battery Positive Port (M8 Terminal)
- Battery Negative Port (M8 Terminal)
- Com Port
- Cover Screws
- AC Output Port
- Ground Port (M4)
- On/Off/Remote Power Switch
- Bluetooth Antenna
- AC Input Port

Residual Current Device (RCD)

Configuration Panel

Cooling Fans



RCM
Certification



5-Year
Warranty

Enhanced Control and Flexibility

Built-in Bluetooth & RV-C communication



Compact and Efficient with High-Frequency Conversion

50Hz/60Hz adaptable output frequency

up to **90%** efficiency
weighing **8.8 kg**



High-Quality Pure Sine Wave

Enhanced power protection for sensitive devices



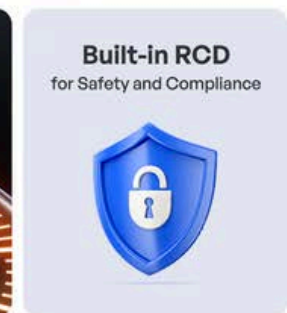
REGO 12V 3000W HF INVERTER CHARGER

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

Model No.	RIV1230RCH-23S
Nominal Input Voltage	12 VDC
Input Voltage Range	11 to 15.8 VDC
Nominal Output Voltage Range	230 VAC
Output Waveform	Pure Sine Wave
Output Frequency Range (Configurable)	50/60 Hz
Continuous Output Power	3,000 W
Peak Power	9,000 W (@100ms) 4,500 W (@5s) 3,600 W (@10s)
Total Harmonic Distortion (THD)	THD≤3%
Protection	Overload Protection, Overvoltage Protection, Undervoltage Protection, Over-Temperature Protection, Short Circuit Protection, Reverse Polarity Protection
Residual Current Protection	Software Protection & RCD
Self Consumption	<30 W
Inverter Efficiency	91%
Remote On-Off	Yes
TRANSFER SWITCH SPECIFICATIONS	
Transfer Time	Max. 20 ms
Bypass Current	30 A Maximum

CHARGER SPECIFICATIONS	
Nominal Input Voltage	230 VAC
Input Voltage Range	187 to 264 VAC
Input Frequency Range	45 to 65 Hz
Maximum Battery Charge Current	150 A
Charge Current Range	5 to 150 A
Charger Efficiency	90% Peak

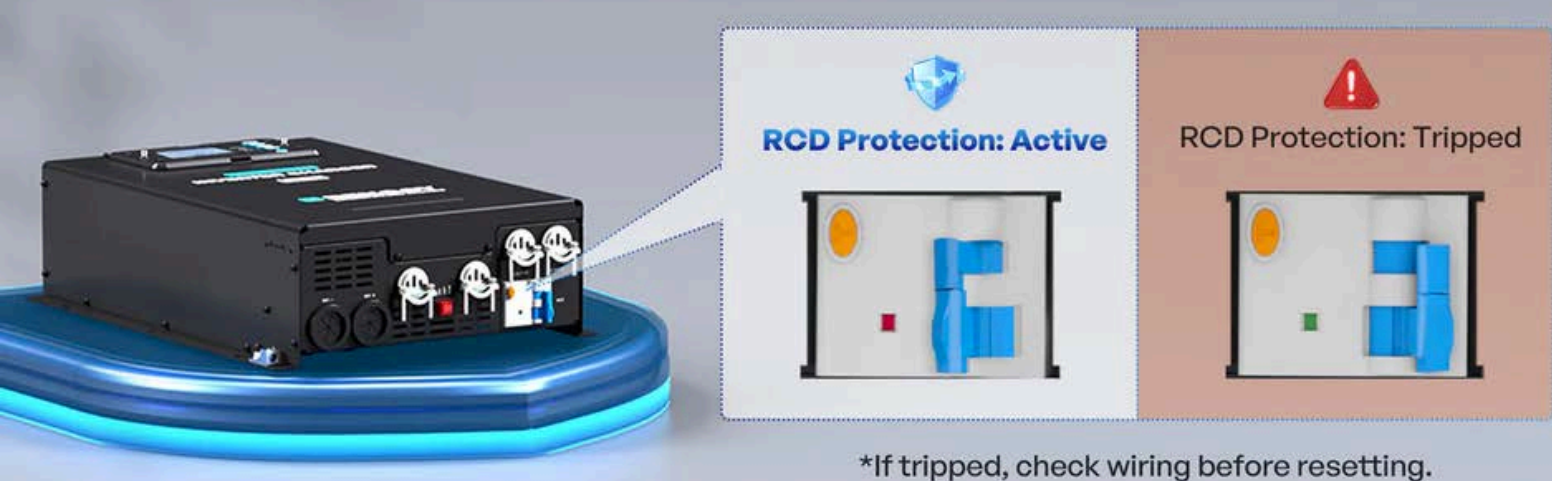
GENERAL SPECIFICATIONS	
Communication	RV-C, Built-in Bluetooth
Operating Temperature Range	-4 °F to 140 °F / -20 °C to 60 °C
Storage Temperature Range	-40 °F to 158 °F / -40 °C to 70 °C
Cooling	Fans
Noise Level	≤54 dB
Ingress Protection	IP20
Dimensions	20.16 x 12.13 x 5.2 in / 512.4 x 308 x 132 mm
Weight	19.4 lbs / 8.8 kg
Certification	CE, RoHS, R10, UKCA, RCM, C-TICK
Warranty	5-Year



Renogy Pro 12V 2000W / 3000W HF Inverter Charger With Transfer Switch

- Over 91% inverter efficiency and <10W standby consumption help extend battery life and minimise energy waste.
- Lightweight, compact (7.5 kg) design for easy installation in tight spaces such as RVs and small cabins.
- Protect your entire power system with lithium battery activation and low-temperature charging protection.
- Supports remote access via the Renogy App when paired with the optional BT-2 Bluetooth Module (sold separately).
- Built-in RCD protection enhances user safety without additional devices.
- Compatible with lithium and lead-acid batteries and supports AC input for a flexible, complete off-grid solution.
- Seamless switching within 20 ms between AC input and battery power ensures uninterrupted operation of connected loads.
- Detachable control panel for convenient system monitoring.





Model No.	RIV1220PCH-23S	RIV1230PCH-23S
Nominal Input Voltage	12 VDC	12 VDC
Input Voltage Range	10.5 to 15.5 VDC	10.5 to 15.5 VDC
Nominal Output Voltage Range	230 VAC	230 VAC
Output Waveform	Pure Sine Wave	Pure Sine Wave
Output Frequency Range (Configurable)	50/60 Hz	50/60 Hz
Continuous Output Power	2,000 W	3,000 W
Peak Power	4,000 W (@100ms)3,000 W (@3s)2,400 W (@35s)	6,000 W (@100ms)4,500 W (@3s)3,600 W (@35s)
Total Harmonic Distortion (THD)	THD≤4%	THD≤4%
Protection	Overload Protection, Overvoltage Protection, Undervoltage Protection, Over-Temperature Protection, Short Circuit Protection, Reverse Polarity Protection	
Residual Current Protection	RCD	
Self Consumption	<10 W	
Inverter Efficiency	91%	
Remote On-Off	Yes	
TRANSFER SWITCH SPECIFICATIONS		
Transfer Time	Max. 20 ms	
Transfer Relay Rating	16 A	
CHARGER SPECIFICATIONS		
Nominal Input Voltage	230 VAC	
Input Voltage Range	187 to 264 VAC	
Input Frequency Range	40 to 70 Hz	
Maximum Battery Charge Current	80 A	120 A
Charge Current Range	5 to 80 A	5 to 120 A
GENERAL SPECIFICATIONS		
Communication	RV-C, RS485	
Operating Temperature Range	-4 °F to 122 °F / -20 °C to 50 °C	
Storage Temperature Range	-22 °F to 158 °F / -30 °C to 70 °C	
Cooling	Fans	
Noise Level	≤55 dB	
Ingress Protection	IP20	
Dimensions	17.02 x 12.01 x 4.87 in / 432.4 x 305 x 123.8 mm	
Weight	16.1 lbs / 7.3 kg	17.4 lbs / 7.9 kg
Certification	CE, RoHS, R10, UKCA	
Warranty	3-Year	

Power Devices Up to 2000W

Delivers Peak Power up to **4000W** to Drive Heavy Loads

Commend Inductive Loads:



refrigerator



washing machine



kettle



Type	 Renogy Pure Sine Wave Inverter			 Other Pure Sine Wave Inverter	 Modified Sine Wave Inverter
THD	less than 3%			5-8%	20%-40%
Wave Form	pure sine wave			pure sine wave	choppy wave form
Build in Bluetooth	✓			—	—
UPS Powering	✓			—	—
Remote Control	✓			—	—
GFCI	✓			—	—
Noise	<51dB (fan on); <20dB (fan off)			< 60 dB	< 60 dB
Power Consumption	<12W			20%-40%	20%-40%
Inverter Efficiency	91%, Max			80%-90%	80%-90%
Continuous Rating	2000W			2000W	2000W
Peak Surge Rating	4000W			—	—

- Clean & Stable Power – Delivers pure sine wave AC output with >91% peak efficiency and low harmonic distortion, ensuring safe operation for sensitive electronics.
- Smart Power Priority – When grid power is available, the inverter prioritizes grid input, helping preserve battery capacity and extend battery life.
- Integrated Safety Features – Built with an Automatic Transfer Switch, 16A AC relay, and NG-Bonding function for enhanced system protection and reliability.
- Smart Monitoring via App – Includes the BT-2 Bluetooth module for real-time monitoring and control through the Renogy App.
- RV-C Compatible – Designed for RV-C communication, enabling integration with modern RV electrical systems.
- Future-Ready Updates – Supports OTA (Over-the-Air) software updates, ensuring continuous improvements and long-term compatibility.

REGO 12V 2000W Pure Sine Wave Inverter With Transfer Switch

Model No.	RIV1220PU-235
Nominal Input Voltage	12 VDC
Input Voltage Range	10.5 - 15.5 VDC
Output Voltage	230 VAC
Output Waveform	Pure Sine Wave
Output Frequency Range (Configurable)	50 Hz
Continuous Output Power	2000 W
Peak Power	4000 W (@100ms)
Total Harmonic Distortion (THD)	< 3%
Self Consumption	Overload Protection Overvoltage Protection Undervoltage Protection Over-temperature Protection Short Circuit Protection Reverse Polarity Protection
Residual Current Protection	RCD
Self Consumption	<12 W
Inverter Efficiency	91%
Remote on-off	YES
Input Voltage Range (VAC)	230 VAC
Input Frequency Range	50 Hz
TRANSFER SWITCH SPECIFICATIONS	
Transfer Time	20 ms
Transfer Relay Rating	16 A
WIRED REMOTE CONTROL	
Dimensions	2.8 x 4.3 x 1.3 in / 70 x 110 x 31.8 mm
Wire length	Approx 16.4 ft / 5 meters

GENERAL SPECIFICATIONS	
Battery Types	SLD, AGM, GEL, FLD and Li
Operating Temperature Range	-4 °F to 140 °F / -20 °C to 60 °C
Storage Temperature	-40 °F to 158 °F / -40 °C to 70 °C
Humidity	0% to 95%
Protection Rating	IP20
Noise	<50 dB
Dimensions	14.84 x 9.96 x 3.94 in / 377 x 230 x 100 mm
Weight	8.82 lbs / 4 kg
Certifications	CE, RoHS, R10, UKCA, RCM, SAA, C-TICK
Warranty	3-Year

12V AC - DC Pure Sine Wave Inverter

Multiple Outlet Versions Available

Offered in UK, DE (Schuko), and EU standard outlet configurations to suit regional requirements.



Model No.	R-INVT-PUHI-101235		
Nominal Input Voltage	12 VDC		
Input Voltage Range	11 to 16 VDC		
Output Voltage	220 to 240 VAC		
Output Waveform	Pure Sine Wave		
Output Frequency Range (Configurable)	50 Hz		
Continuous Output Power	1,000 W	2,000 W	3,000 W
Peak Power	2,000 W (@1s)	4,000 W (@1s)	6,000 W (@1s)
Total Harmonic Distortion (THD)	<5%		
Self Consumption	<12 W	<24 W	<30 W
Inverter Efficiency	90%		
Remote On-Off	Yes		
Transfer Time	50 ms		
Operating Temperature Range	-4 °F to 104 °F / -20 °C to 40 °C		
Dimensions	13.5x 6.8 x 3.0 in 342 x 173 x 76 mm	17.4 x 8.7 x 3.6 in 442 x 220 x 92 mm	18.9 x 8.7 x 3.6 in 482 x 220 x 92 mm
Weight	5.7 lbs / 2.6 kg	10.6 lbs / 4.8 kg	12.57 lbs / 5.7 kg
Certification	CE, RoHS, R10, UKCA, RCM, SAA, C-TICK		
Warranty	2-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?

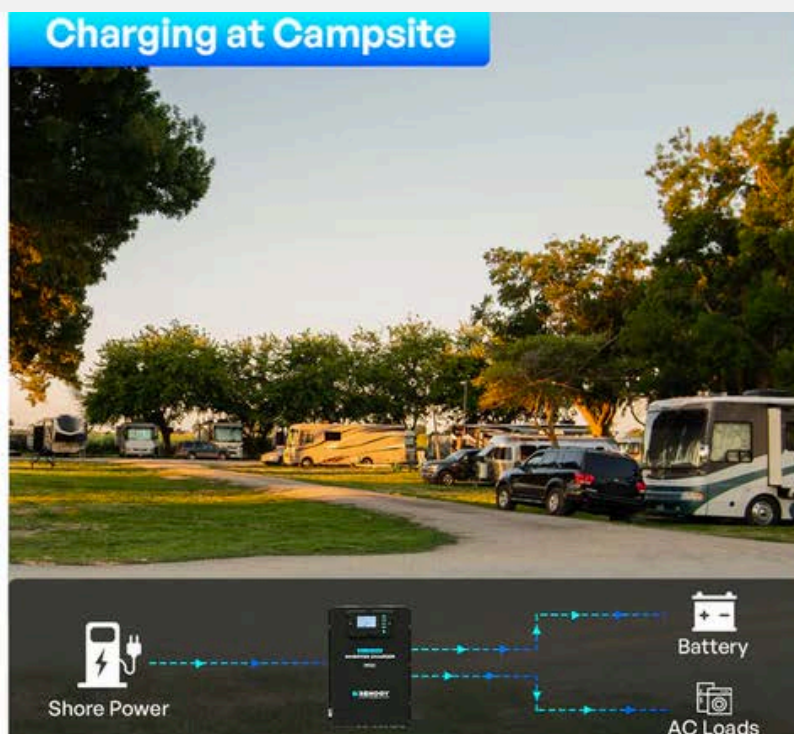
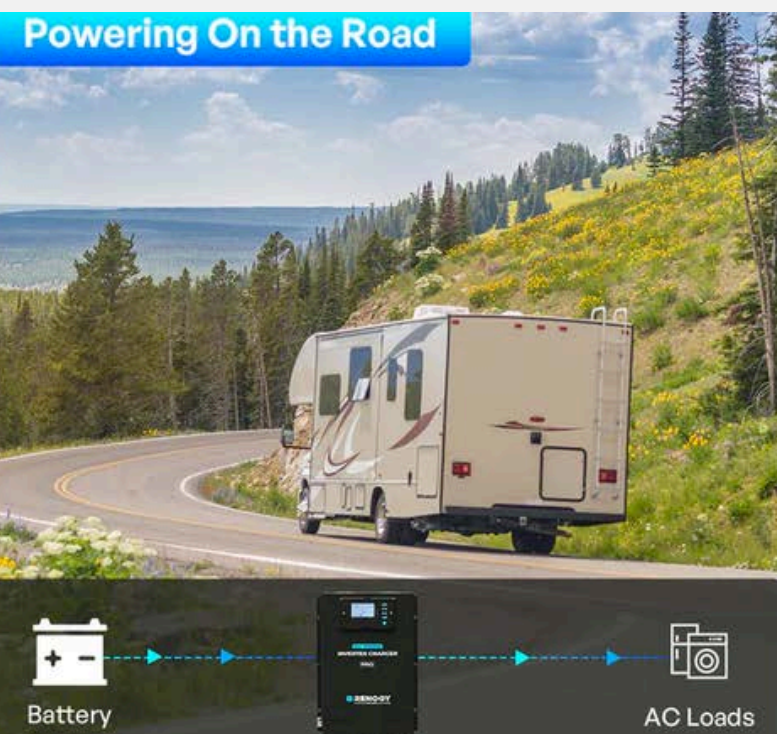
- Yes, Renogy's inverters and inverter chargers have optional connectivity to monitoring devices like the BT-2, which allows you to monitor and control your system remotely via a smartphone app.

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.



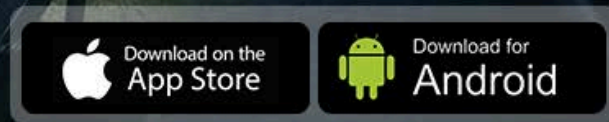


Smart Power Management

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

CONTROL YOUR RENOGY DEVICES VIA BT-2 BLUETOOTH MODULE

Make your off-grid power system smarter by simply configuring, monitor, update and diagnose your Renogy products.



Renogy Bluetooth Module

Model No.	RCM-BT2
Communications	RS485 (Modbus)
Port Type	RJ45
Input Voltage	5 V or 12 V
Protection Grade	IP54
Communication Range	25 m
Cable Length	5.00 m
Weight	4.58 oz / 130 g
Dimensions	2.65 X 1.38 X 0.55 in 67.3 X 35 X 14 mm
Warranty	2-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	1-2 mA (Standby)
Display	LCD with Green Backlight (brightness is adjustable)
Shielded Wire Length	20 ft/6 m
Voltage Input Range	10-120 V
Weight	2.6 oz / 75 g
Dimensions	3.9 x 2.4 x 0.7 in / 99 x 61 x 18 mm
Certifications	RoHS
Warranty	2-Year

Track Battery Charging and Operating Status

Charging Status



Voltage



Current



State of Charge



Nominal Capacity

Operating Status



Runtime



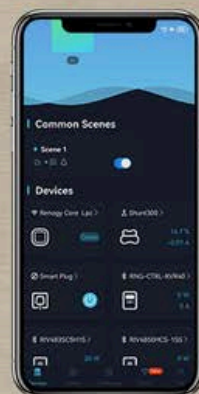
Charge Cycle



Temperature



Alarms



Renogy Battery Shunt 300



Model No.	RSHST-B02P300
System Voltage	12V/24 VDC
Operation Voltage	8 - 120 VDC
Power Consumption	<0.1 W
Communications	Bluetooth LE and BLE Mesh
Max Continuous Current	300 A
Max Peak Current	500 A (<10 s)
Current Accuracy	±1%
Voltage Input Range	8V to 120 VDC
Voltage Input Resolution	10 mV
Operating Temperature	14 °F to 122 °F / -10 °C to 50 °C
Weight	0.57 lb / 260 g
Dimensions	5.27 x 3.82 x 1.22 in / 134 x 97 x 31 mm
Certifications	CE, RoHS, REACH, R10, FCC C-TICK, RCM, PSE-TELEC
Warranty	2-Year

Streamline Energy with our ALL-in-One Smart Panel.

Off-Grid Energy Monitoring



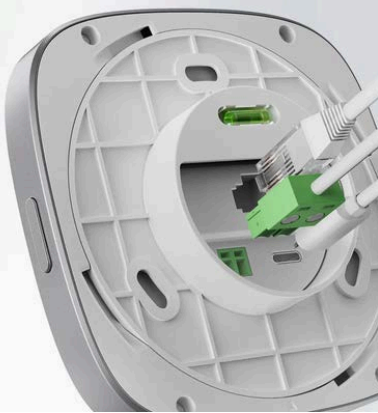
Smart Automation



ONE Connect 2.0

Support multiple communication standards

- BLE
- RS485
- WiFi
- Zigbee
- BLE Mesh



RV Leveling

Get instructions for leveling via ONE Core and DC HOME.



Smart Automation



- ① Door&Window Sensor
- ② Smart Relay
- ③ Smart Plug
- ④ Motion Sensor



Renogy ONE CORE All-in-One Monitoring Panel (4')

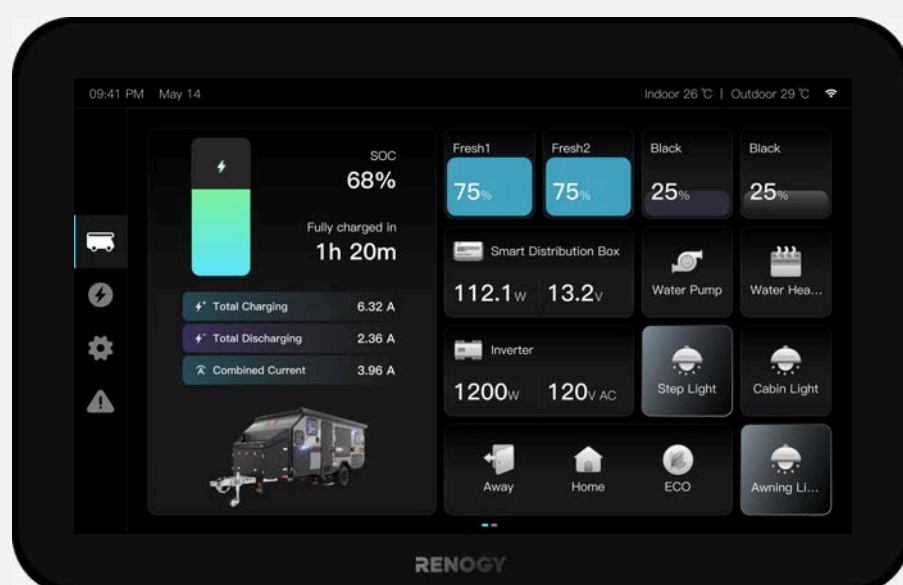
Product Name	Renogy ONE Core (Gateway)
Model No.	RSHGWSN-W02W
Communications	Wi-Fi (IEEE 802.11 a/b/g/n 2.4 GHz & 5 GHz) Bluetooth LE and Bluetooth Mesh Zigbee 3.0 (IEEE 802.15.4) RS-485 & CAN
Leveling Range and Accuracy	$\pm 89^\circ$, 0.1°
Operating Voltage	8-35 VDC (5 VDC for USB Type-C)
Operating Temperature	-4 °F to 158 °F / -20 °C to 70 °C
Installation	Flush mount or place on a table
Touch Screen	4 inches (480 x 480p)
Certification	CE, REACH, R10, EN18031, PSTI, FCC, IC ID, C-TICK
Weight	0.28 lb / 128 g
Dimensions	4.17 x 4.17 x 1.05 inch 106 x 106 x 26.6 mm
Warranty	2-Year



Renogy ONE Vision 7" Smart Touchscreen Dashboard

Model No.	RSHSN-W02W7-G1
Input Voltage	8 V to 32 VDC (Typical 12 V)
Power Consumption	0.5 W @ 12 V (Screen Off @Wi-Fi On)
Touch Screen	7-inch touch screen Resolution: 600 x 1024p Brightness: 300 cd/m ²
CPU and Memory	Quad-Core Cortex-A53 64-bit CPU Memory: 2GB Storage: 16GB
Operating System	Android 12
Communications	2.4GHz Wi-Fi (IEEE 802.11b/g/n) 2.4GHz Bluetooth Low Energy
Ethernet	100 Mbps
Operating Temperature	-4 °F to 158 °F / -20 °C to 70 °C
Weight	0.77 lbs / 350 g
Dimensions	7.1 x 4.7 x 0.99 in / 181.4 x 118.4 x 25.2 mm
Certifications	CE, R10, UKCA, FCC, IC ID, C-TICK, RCM, PSE-TELEC
Warranty	5-Year

One smart touchscreen to monitor, control, and optimize your entire off-grid power system.



Comprehensive Solar & Power Monitoring

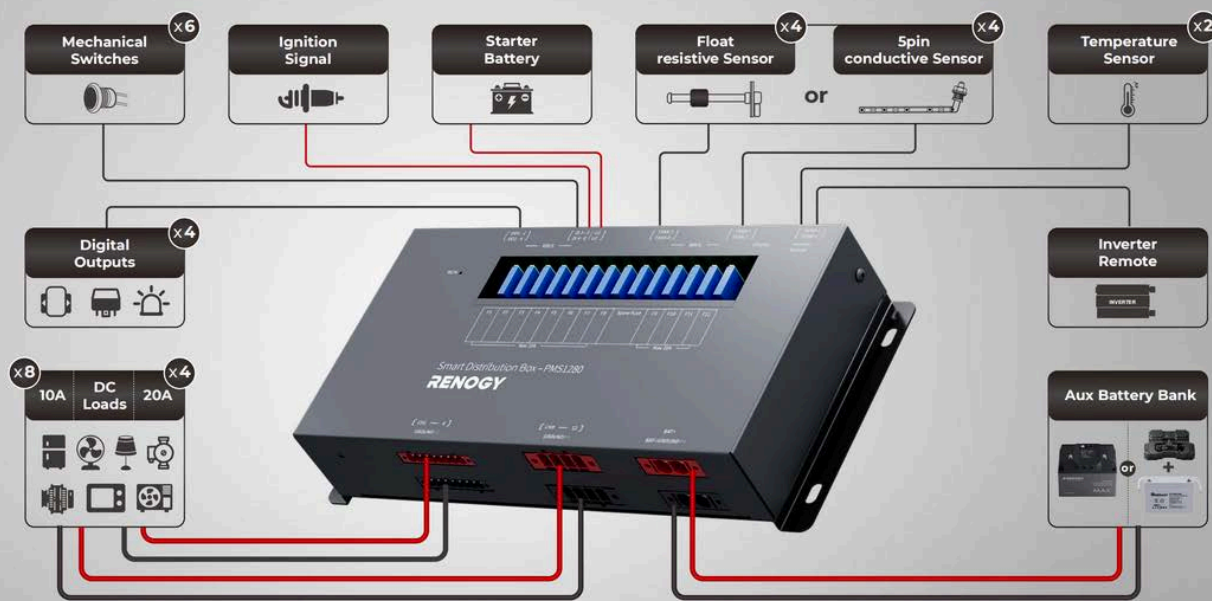
Monitor the performance of your solar panels, charge controllers, inverters, batteries, and DC loads—all from a single, centralized interface.

Real-Time Energy Dashboard

The customizable “My RV” screen displays key metrics and connected devices through intuitive widgets, giving you instant access to water levels, battery SOC, lights, pumps, heaters, and more.

Automated Scene Control & Troubleshooting

Set up custom automation scenes and receive self-diagnostic alerts with step-by-step troubleshooting, making system maintenance easier and minimizing downtime.



Renogy Smart Distribution Box PMS1280

Model No.	RSHCB-C02P-G1
Operating Voltage	12V / 24 VDC
Maximum Load Amps	80 A
Power Consumption	< 1.2 W@12 VDC (Standby Mode)
DC Loads	10 A x 8 20 A x 4
Communications	CAN & RS-485
Digital Channels	Digital Input x6, Digital Output x4
Remote Inverter Control	Yes
Water Level Sensor	Capacitive, Resistive, and Voltage Water Level Sensors x4
Operating Humidity	0% to 95%, RH, No Condensation
Operating Temperature	-4 °F to 122 °F / -20 °C to 50 °C
Weight	4.36 lbs / 1.98 kg
Dimensions	13.39 x 6.18 x 2.61 in / 340 x 157 x 66.4 mm
Certifications	REACH, R10, FCC, IC ID
Warranty	5-Year

- **Powerful Load Control:** Supports up to 12 DC loads at 80A, each equipped with built-in current sensors for precise monitoring.
- **Pre-Fused Outputs:** Each output includes a fuse with a blown-fuse indicator for easy maintenance.
- **Custom Configuration:** Enables personalized interface settings, including automation setup, directly on the Renogy App and ONE Vision.
- **Automated Load Mode Switch:** Adjusts power distribution intelligently based on battery voltage and load requirements.
- **Multi-Sensor Support:** Four water level detection channels, two temperature detection ports, and multiple digital I/O ports for expanded monitoring.
- **Battery Protection:** Automated low-voltage shutdown and high-voltage reconnect prevent battery overdischarge or overcharge.

Control at a Glance

Physical buttons with LED indicators keep you instantly informed of every load.

DC Output Switches



LED Indicators



Pre-installed Fuse



Fuse Disconnection Tool Included



30A

10A

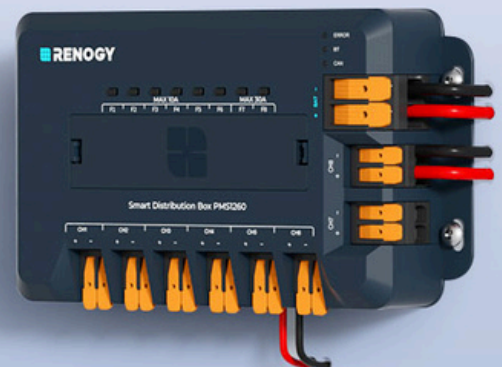
RJ45 CAN Termination Resistor *1



Mounting Screw *4



User Manual *1





Renogy Smart Distribution Box PMS1260

Model No.	RSHCB-B02P
Operating Voltage	12 V / 24 VDC
Maximum Load Amps	60 A
Power Consumption	< 0.5 W @12 VDC, <1 W @24 VDC (Standby Mode)
DC Loads	6 x 20 A & 2 x 30 A
Communications	Bluetooth, CAN, RS-485
Remote Inverter Control	Yes
Water Level Sensor	Resistive water level sensors x 2
Operating Humidity	10% to 95% RH
Operating Temperature	-4 °F to 140 °F / -20 °C to 60 °C
Weight	1.11 lbs / 501.5 g
Dimensions	8.66 x 4.65 x 1.77 in / 220 x 118 x 45 mm
Certifications	CE, RoHS, R10, FCC, CA65, TSCA, C-TICK
Warranty	5-Year

- **Battery Compatibility:** Supports 12V and 24V battery systems.
- **High Current Capacity:** Maximum total input current of 60A.
- **Multi-Channel DC Load Control:** 6 channels at 10A each and 2 channels at 30A each.
- **Communication Protocols Supported:** CAN, RS485, and Bluetooth for real-time data interaction.
- **Direct Load Control:** Allows direct operation of connected loads via app or monitoring system.
- **Quick-Connect Terminals:** Simplifies installation and setup.
- **Comprehensive Safety Protection:** Protects against reverse polarity, overcurrent, short circuits, and over-temperature conditions.

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 App
- Renogy ONE Online Portal



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

Why EIoT Matters to You

Energy Transparency – Your Personal Power Dashboard

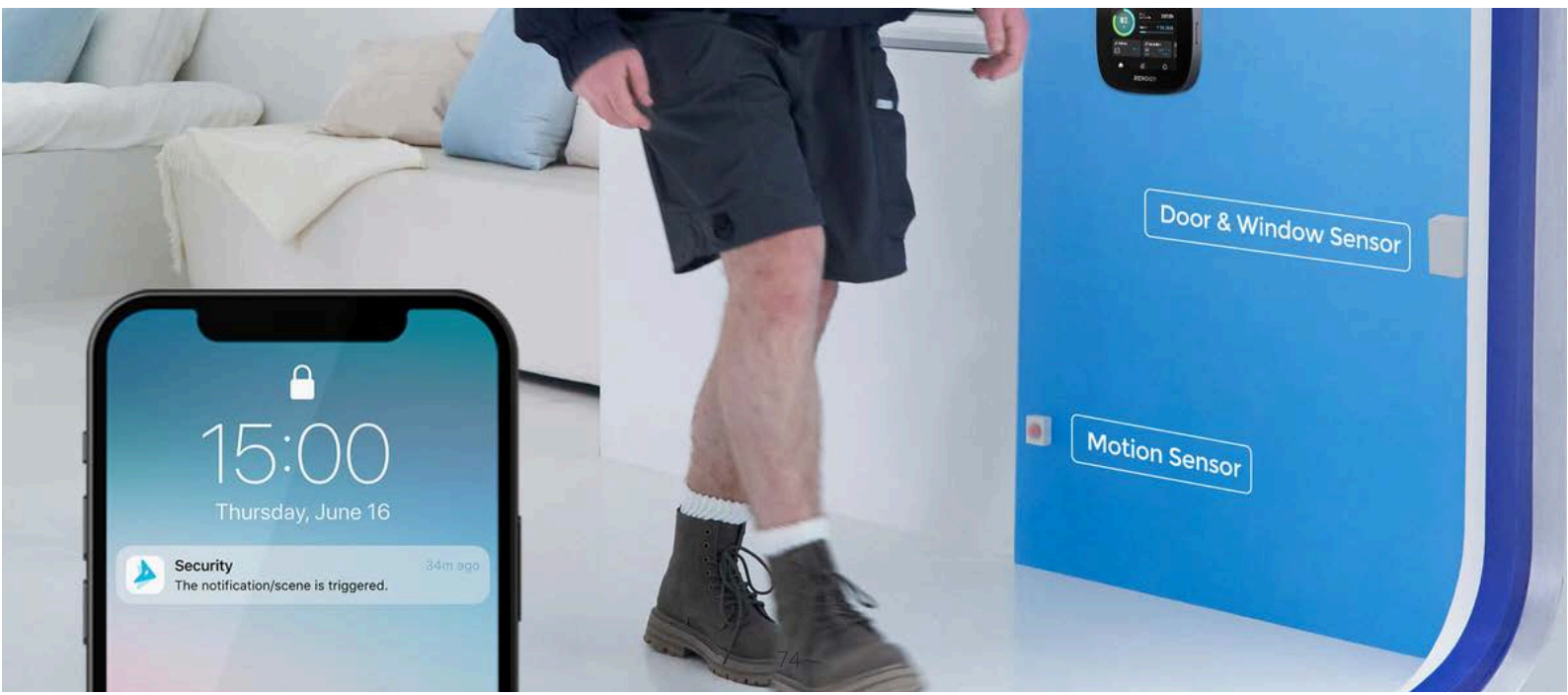
Just like a car's dashboard, Energy IoT gives you real-time insights into how much energy you're generating, storing, and using—ensuring you never run out of power unexpectedly.

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.



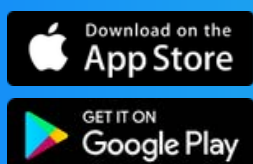
Power at Your Fingertips

The Renogy App is designed to help users monitor, control, and optimize their off-grid power systems anytime, anywhere. Whether you're camping, traveling, or living off-grid, the Renogy App delivers real-time data and smart control—all in your pocket.

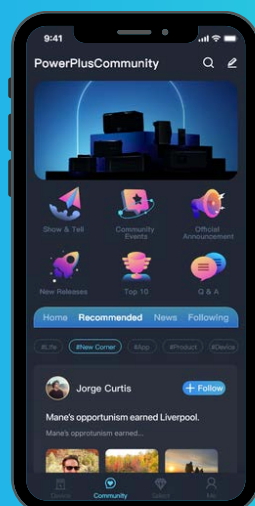
Powered by Renogy Energy IoT

The app is integrated with Renogy's exclusive EIOT (Energy Internet of Things) system, offering stable cloud-based performance and secure data visualization.

- Real-Time Monitoring
- Device Control
- Smart Alerts
- Historical Data
- Multi-System Management
- Firmware Upgrades



Watch Video



Renogy Power Plus Community Connect. Share. Empower.

Join a global network of off-grid enthusiasts, DIYers, and solar professionals who are passionate about renewable energy. In the Renogy Power Plus Community, members share real-life setups, exchange tips, and get early access to product news, exclusive events, and rewards. Whether you're a beginner or a seasoned expert, this is your space to learn, grow, and power your journey—together.



Accessories

Renogy offers a comprehensive range of high-quality accessories designed to ensure safe, efficient, and reliable operation of your off-grid solar power systems. Whether you're installing a compact solar setup or building a large-scale renewable energy system, Renogy accessories provide the essential components you need to get the job done right.

Tools & Mounting Solutions



Renogy ANL Fuse RNG-SET-ANL

Protect your off-grid system from overcurrent with the Renogy ANL fuse. Built with high-quality alloy and brass copper, it features a clear, non-conductive cover for safe, easy installation. Ideal for safeguarding charge controllers, batteries, inverters, and wiring. Available in: 20A, 200A

Renogy Busbar 100A 300A RPD100RBB RPD300RBB

Made from reinforced nylon glass fiber for strength and durability, with nickel-plated brass for optimal conductivity and corrosion resistance. Supports up to 48V DC and 100A/300A. Removable windows allow flexible, barrier-free wiring. Ideal for cars, trucks, boats, and solar systems.



Renogy Solar Double Cable Entry Gland RMT01CE

Easy installation with self-tapping screws and adhesive—no drilling needed. Durable, UV- and water-resistant 100% recyclable ABS plastic. Compatible with all aluminum-framed solar panels. Available in: 10A, 15A, 20A, 30A.

Renogy 12-Way Battery Terminal Distribution Block Pair ROA03TB

Compatible with lithium and lead-acid batteries (AGM, MF, GEL, WET, CA/CA), this distribution block supports large cables like 4/0, 3/0, and 2/0 AWG. Each terminal includes 2 large cable connectors, 6 hole-holders, and 6 threaded studs for clean, organized power distribution across multiple devices.



Monitoring Screen for DC-DC MPPT Battery Charger RMS-DCDC

Designed for Renogy DC-DC MPPT Series battery chargers, the RMS-DCDC is a flush-mounted, high-precision meter with a clean, professional appearance. Featuring a backlit LCD and simple 4-key navigation, it provides real-time monitoring, system diagnostics, and parameter configuration for dual battery systems. Compatible with: RBC50DIS, RBC30DIS

Wirings and Cables



Renogy Solar Panel to Charge Controller Adaptor Kit

Easily connect your solar panel to a charge controller with this adaptor kit. Features durable male and female hard plastic connectors for a secure, weatherproof connection, plus exposed wire ends for simple hookup to your controller. Insulated for safety and built to withstand outdoor conditions.

Available cables include 12 AWG (3.31 mm²) at 9 inches (0.23 meters) and 10 AWG (5.26 mm²) at 20 feet (6.10 meters). RNG-AK-9IN-12 RNG-AK-20FT-10-1

Solar Extension Cables RNG-REC

The Renogy Solar Extension Cable lets you easily extend the distance between solar panels and charge controllers. It's made with TUV-tested, UV-resistant, waterproof cable and durable connectors, meeting strict PV solar standards. Available in 6 mm² (10 AWG), 3M/4.5M/6M



Battery Inverter Cables RNG-INVTCB-5FT-4

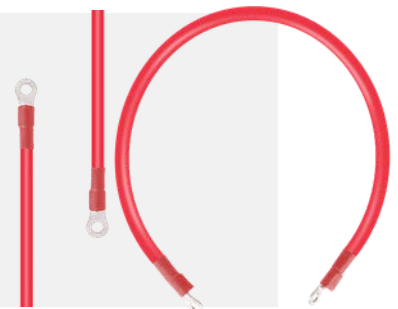
Connect batteries to inverters with these durable cables, featuring red and black colors for easy identification.. Pre-terminated with stainless steel ring lugs for quick installation. The flame-retardant PVC jacket and stranded copper conductors offer flexibility and resistance to moisture, abrasion, acid, diesel, and oil.

Available in 5FT/1.5M 25 mm²/4AWG for 3/8 in Lugs

Renogy Fuse Cable with Double Ring Terminals RPC0506BC

Ensure safe and stable power flow with Renogy's fuse cable, featuring double 5/16" ring terminals and heat-shrink insulation for added protection. Made from high-purity, oxygen-free tinned copper for maximum conductivity and minimal power loss. UL & RoHS tested for reliable performance and electrical safety.

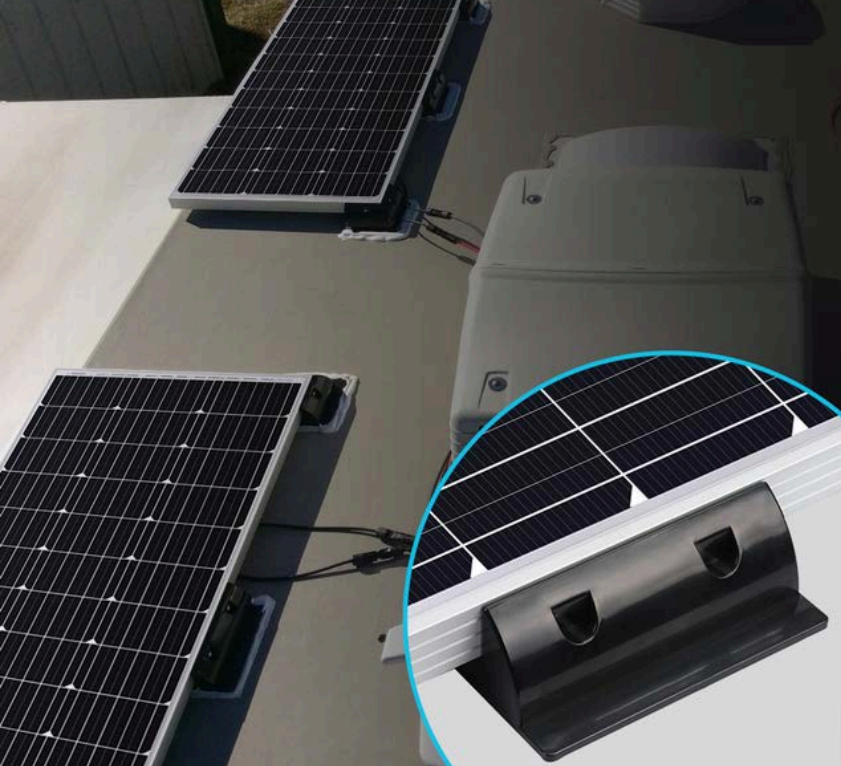
Available in 6AWG 5ft (1.5m) – 5/16 in Lugs



Solar Connector to DC Connector Adapter Cable RPC1016MD

The Solar Connector to 5.5x2.1mm DC Adapter Cable lets you easily connect most solar panels to the PHOENIX 200 Portable Power Station without tools. Its 10-foot length allows flexible placement of the power station in the shade while maximizing sunlight on the panels. Built to UL standards with durable, temperature-resistant PVC insulation, this cable ensures safe, reliable performance in harsh outdoor conditions.

Available in 10 ft (3.05 m) 16 AWG



Corner Mounting Brackets

Model No. RNG-MTS-CB

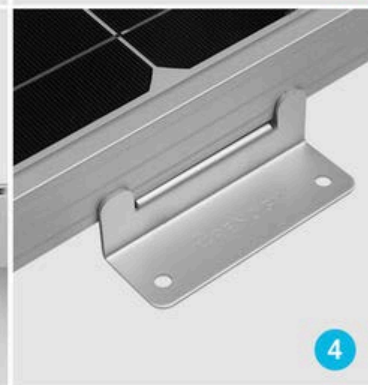
- UV-resistant ABS Plastic
- Drill-free mounting.
- Compatible with virtually all aluminum-framed solar panels.
- Side Bracket Dimensions (l x w x h) 178 x 117 x 58 mm
- Corner Bracket Dimensions (l x w x h) 150 x 150 x 58 mm



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.



Where to Buy

- Renogy Official Online Store
- Renogy Certified Dealers – Locate your nearest dealer on our official website

Business Website

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

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

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

Official Store

<https://eu.renogy.com>

<https://uk.renogy.com>

<https://de.renogy.com>



Grow Your Business with Renogy

Become a Renogy dealer, distributor, or OEM partner and unlock our complete portfolio of off-grid power solutions. From RV manufacturers to marine applications, we offer tailored energy solutions that help you stand out in the market.

Head Office

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

Renogy France

immeuble Emergence, 24 Rue du Gouverneur
Général Éboué, 92130 Issy-les-Moulineaux

Germany

dealer.de@renogy.com

partner.de@renogy.com

United Kingdom

dealer.uk@renogy.com

partner.uk@renogy.com

Rest of Europe

dealer.eu@renogy.com

partner.eu@renogy.com

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

