

Description

Designed to keep sensitive electronics safe and functional wherever you go, REGO 12V 3kW High-Frequency Inverter Charger outputs utility-like power with a peak efficiency of over 90% and low total harmonic distortion. When connected to both the grid and a battery, the inverter charger can deliver up to 30A for high-powered appliances, such as heaters and dryers.

With a rapid 20ms transfer time, the unit provides a seamless power supply that protects your critical appliances from interruptions. The inclusion of Bluetooth and CAN connectivity makes it easy to remotely track power usage via the Renogy App and Renogy ONE Core.

Key Features

■ High Conversion Efficiency

REGO 3kW inverter charger provides grid-quality AC power with total harmonic distortion (THD) under 3% and peak conversion efficiency exceeding 90%, allowing sensitive electronics such as laptops and CPAP machines to run flawlessly off the grid.

■ Uninterrupted Power Supply

Switch from the grid to the connected battery within 20ms to ensure critical appliances operate smoothly.

■ Customizable Charging

Fine-tune your inverter charger settings to match your off-grid power needs, including:

- Battery types
- Charging current
- Output frequency
- Input priority

■ N-G Bonding

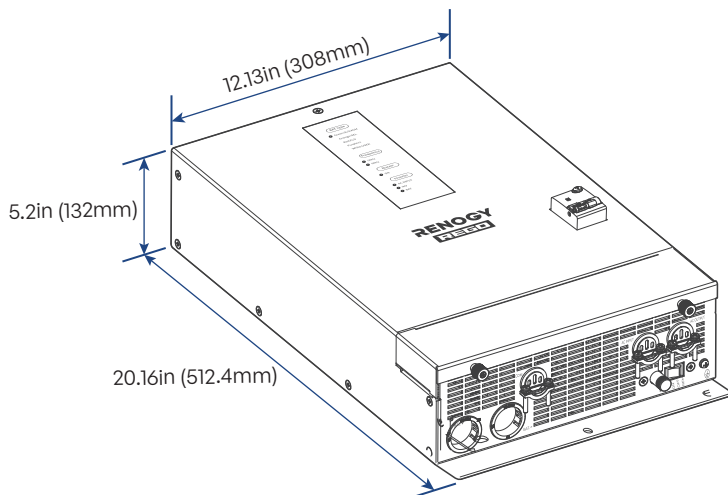
Provides a single grounding point to prevent ground loops and electric shock, minimizing the risk of inverter charger faults.

■ Remote Monitoring

Integrated with Bluetooth and CAN connectivity to connect to Renogy ONE Core, allowing for energy monitoring and control when you are away from the main unit.

■ Residual Current Device (RCD)

Automatically cuts power during potential leakage faults to prevent shocks, fires, and damage.



Product Dimensions

Technical Specifications

Electrical Data

Model	RIV1230RCH-23S
Continuous Output Power	3,000W
Surge Rating	9,000W (@100ms) / 4,500W (@5s) / 3,600W (@10s)
Output Voltage (Configurable)	230VAC
Output Frequency (Configurable)	50/60Hz
Rated Battery Input Voltage	12VDC
Inverter Efficiency	90%
Power Consumption	<26W

Charger Data

Charge Current	5-150A
Nominal Input Voltage	230VAC
Input Voltage Range	187-264VAC
Charger Efficiency	90% Peak

Transfer Relay Data

Transfer Relay Rating	30A
Transfer Time	20ms

General Data

Battery Types	GEL, AGM, SLA, FLD, CAL, LI, and USER
Operating Temperature	-4°F to 140°F / -20°C to 60°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Cooling	Fans
Dimensions (LxWxH)	20.16 x 12.13 x 5.2in / 512.4 x 308 x 132mm
Weight	19.4 lbs / 8.8kg
Certification	CE, R10, UKCA, RCM
Warranty	5-Year

Package Contents

RJ12 Cable	Yes (x1)
Grub Screws	Yes (x6)
Self-Tapping Screws	Yes (x8)
User Manual	Yes (x1)
Battery Voltage Sensor	Yes (x1)
Battery Temperature Sensor	Yes (x1)
Dry Contact Relay Connector	Yes (x1)
Wired Remote Control	Yes (x1)
Mounting Plate	Yes (x2)

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These data sheets can be found in the downloads section of our website, www.renogy.com.