



# 48V SOLAR INVERTER CHARGER



## RENOGY 48V SOLAR INVERTER CHARGER

Get ready for the new hybrid solution thanks to Renogy's all in one 48V Solar Inverter Charger. Essentially a complete solar power system combining a 3500W pure sine wave inverter, an 80A MPPT solar charge controller, up to 120A (AC/DC) Battery charger, and an automatic transfer switch all in one! The solar inverter charger is a true marvel with power control at your fingertips allowing you to configure the charging mode (Utility Priority, Solar Priority, Hybrid Charging, or Only Solar Charging), the load power mode (PV, Utility, Inverter), and many more options to obtain a true UPS system. The Renogy Solar Inverter is ready for powering up your off-grid cabin, take a joy ride in your RV or camper, and just about ready for any application resulting in the full charge and maintenance of your battery storage.

### KEY FEATURES

- 3500W Pure Sine Wave Inverter Output with 7000W Surge—features user-configurable battery charger (120A max), switchable frequencies (50Hz/60Hz), and an optional power-saving mode.
- Equipped with state of the art MPPT technology, boasting an efficiency of up to 99%, and a powerful bypass function with UPS.
- Preset battery modes for 48V AGM/Sealed, Gel, Flooded, and Lithium batteries. Includes a User mode for custom inputs to work with virtually all battery types.
- 4 Charging Modes: PV Priority, Utility Priority, Hybrid Charging, and Solar Only; 3 Load Output Modes: PV Priority, Utility Priority, and Inverter Only.
- Dynamic LCD and intelligent LEDs provide relevant system information and identify any errors.
- Exhaust ventilation fans allow for excellent heat dissipation, extending the system's life.
- Complete software and hardware protection, including short circuit, over-voltage, overload, and more!

## BT-2 BLUETOOTH MODULE (MODEL: RCM-BT2)

The new BT-2 pairs great with the solar inverter charger. Simply plug into the communication port on the unit to seamlessly monitor and change settings straight from your smart device using the Renogy DC Home App, available on IOS and Android



## TECHNICAL SPECIFICATIONS

<b>Model</b>	<b>RIV4835CSH1S</b>
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### AC

<b>Max Rated Power</b>	<b>3500W</b>
<b>Power Factor</b>	<b>1</b>
<b>Input Voltage</b>	<b>120VAC</b>
<b>Input Voltage Range</b>	<b>85 ~ 140VAC ± 2% Adjustable</b>
<b>Input/Output Frequency</b>	<b>50/60Hz Adjustable</b>
<b>Output Voltage</b>	<b>120VAC±5%</b>
<b>Output Waveform</b>	<b>Pure Sine Wave</b>
<b>Peak Efficiency</b>	<b>&gt;95%</b>
<b>Max AC Charging Current</b>	<b>30A</b>
<b>Conversion (Bypass and Invert)</b>	<b>10ms typical</b>

### SOLAR CHARGER

<b>Max PV Input/Output Power</b>	<b>4400W/4200W</b>
<b>Max PV Charging Current</b>	<b>80A</b>
<b>Max PV Input Voltage</b>	<b>150V (145V recommended)</b>
<b>Max PV Input Current</b>	<b>50A</b>
<b>Algorithm</b>	<b>MPPT</b>
<b>MPPT Voltage Range</b>	<b>60 ~ 115V</b>

### BATTERY CHARGER

<b>Battery Type</b>	<b>Lead Acid or Lithium</b>
<b>Max Battery Charging Current</b>	<b>120A (Adjustable)</b>
<b>Battery Voltage Range</b>	<b>40 ~ 60V DC</b>
<b>Nominal Battery Voltage</b>	<b>48V</b>

### ENVIRONMENTAL/ MECHANICAL

<b>Operating temperature</b>	<b>5°F ~ 131°F / -15°C ~ 55°C</b>
<b>Storage Temperature</b>	<b>-13°F ~ 140°F / -25°C ~ 60°C</b>
<b>Humidity</b>	<b>5% ~ 95% (3 Layer Paint Protection)</b>