



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 FEATURE

- 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.
- 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.
- 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.
- Complete software and hardware protection, including short circuit, over-voltage, overload, and more!
- Connecting the N and G wires in the inverter helps ensure the safe operation and current balance of the electrical system during onshore power access.

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



Model	RIV4835PCS-ISS
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INVERTER DATA

Continuous Output Power	3500W (@ 25°C / 77°F)
Surge Rating	7000W (@1s)
Total Harmonic Distortion (THD)	<3%
Power Factor	1
Output Voltage (Configurable)	120VAC (100VAC~120VAC, 5VAC Increments)
Output Frequency (Configurable)	50Hz / 60Hz
Rated Battery Input Voltage	48VDC
Battery Input Voltage Range	40VDC~60VDC (44VDC Min. Startup)
Peak Efficiency	<95%
Power Consumption	50W

TRANSFER RELAY DATA

Transfer Relay Rating	40A Surge, 30A Continuous
Transfer Time	10ms

AC BATTERY CHARGER

Charge Current Range	5A~120A, 5A increments
Nominal Input Voltage	120VAC
Input Voltage Range	85VAC ~ 140VAC
Maximum Input Current	40A
Charger Efficiency	>95%
Temperature Compensation	3mV/°C
Charger Algorithm	3-stage Lead Acid, Bulk, Boost, Float, Equalize*2-Stage Lithium, Bulk, Boost
Battery Type	Lead Acid or Lithium

SOLAR CHARGER

Max. Input / Output Power	4400W / 4200W
Max. Charging Current	80A
Input Voltage Range	60VDC - 150VDC (145V recommended)
Maximum Input Current	50A

GENERAL DATA

Output Waveform	Pure Sine Wave
Communication	RS485/CAN Bus
Operating Temperature	5°F~131°F/-15°C-55°C
Storage Temperature	-4°F-140°F/-20°C-60°C
Humidity	5%~95%
Cooling	Fans
Dimensions (LxWxH)	444.8*330*124 mm
Weight	22.38 lbs /10.15kg
Regulatory and Safety Specifications	UL certified to 458 & 1741 and to CSA 22.2 No. 107.1-01 FCC Path 15, Class B