



# 12V OFF-GRID PURE-SINE WAVE BATTERY INVERTER CHARGER



## RENOGY 12V OFF-GRID PURE-SINE WAVE BATTERY INVERTER CHARGER

The Renogy Pure Sine Wave Inverter Charger can be used for multiple applications when going off-grid. A power inverter is an electrical device that transforms the DC power stored in a battery bank into standard household AC power for a user's electronic needs. This device can also charge and maintain a battery bank when connected to shore power and is now compatible with Lithium batteries. With a low transfer time, power remains uninterrupted when switching from solar to shore power. This creates clean and silent energy without having to worry about losing access to connected devices and appliances. The Renogy Pure Sine Wave Inverter Charger is a perfect back-up power source!

### KEY FEATURES

- Configurable input voltage range and battery charging current.
- LCD and LED display used to view inverter status and programming features.
- 4-Stage battery charger; 8 pre-set battery voltages including lithium; User-defined option available.
- Safety Protections: Overload, Over-charge, Over-discharge, Short Circuit, and Over Temperature Protection
- Capable of producing cleaner, smoother, quieter, and more reliable power to operate tools, fans, lights,
- and other electronics without interference.



<b>Model</b>	R-INVT-PCL1-20111S R-INVT-PCL1-20123S	R-INVT-PCL1-30111S R-INVT-PCL1-30123S
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## Inverter Specifications

<b>Rated Output Power</b>	2000W	3000W
<b>Surge Power (1 second)</b>	6000W	9000W
<b>Surge Power (3 second)</b>	3000W	4500W
<b>Nominal Output Voltage RMS</b>	120 / 230VAC (100 ~ 120VAC, 5V intervals ; 200 ~ 240VAC 10V intervals)	
<b>Output Frequency</b>	50Hz ± 0.3Hz or 60Hz ± 0.3Hz	
<b>Output Wave Form</b>	Pure Sine Wave	
<b>Nominal Input Voltage</b>	12 VDC	
<b>Input Voltage Range</b>	10 ~ 16 VDC ± 0.3 VDC	
<b>Nominal Efficiency</b>	> 90% Peak	
<b>No Power Consumption</b>	Normal: < 20W	Normal: < 30W
	Power Saving: < 15W	Power Saving: < 15W

## Charger Specifications

<b>Nominal Input Voltage</b>	120 VAC	
<b>Input Voltage Range</b>	90 - 138 VAC	
<b>Input Frequency Range</b>	40Hz - 70 Hz	
<b>Optimal Efficiency</b>	> 85%	
<b>Output Current</b>	5 - 65A	5 - 75A

## Transfer Switch Specifications

<b>Transfer Time</b>	~ 10ms
<b>Transfer Relay Rating</b>	3 Legs @ 40A each (277 VAC)

## Charger Specifications

<b>Battery Types</b>	GEL, AGM, SLA, FLD, CAL, LI, USER	
<b>Operating Temperature</b>	0 ~ 40°C / 0 ~ 104°F	
<b>Storage Temperature</b>	-30 ~ 70°C / -22 ~ 158°F	
<b>Humidity</b>	0% ~ 95%	
<b>Noise</b>	< 50dB	
<b>Dimensions</b>	510 * 248 * 193 mm / 20.1 * 9.7 * 7.6 in	
<b>Weight</b>	51.1 lb / 23.2 kg	63.5 lb / 28.8 kg

