



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 reliable power to operate tools, fans, lights, and other electronics without interference.



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Model	R-INVT-PCL1-20111S R-INVT-PCL1-20123S	R-INVT-PCL1-30111S R-INVT-PCL1-30123S
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Inverter Specifications

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

Charger Specifications

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

Transfer Switch Specifications

Transfer Time	~ 10ms	
Transfer Relay Rating	30A Maximum Bypass	

General Specifications

Battery Types	GEL, AGM, SLA, FLD, CAL, LI, USER	
Operating Temperature	0 ~ 40°C / 0 ~ 104°F	
Storage Temperature	-30 ~ 70°C / -22 ~ 158°F	
Humidity	0% ~ 95%	
Noise	<50dB	
Dimensions	510 x 285 x 193mm / 20.1 x 11.2 x 7.6 in	
Weight	51.1 lbs / 23.2 Kg	63.5 lbs / 28.8 Kg





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