



12V PURE SINE WAVE INVERTER

CORE



RENOGY CORE SERIES 12V PURE SINE WAVE INVERTER

The Renogy 12V Pure Sine Wave Power Inverter excels in smaller off-grid systems, effectively converting DC power stored in batteries to AC power, and serving as a reliable DC to AC converter. It prioritizes backup mains, ensuring seamless switching between mains and inverter modes. Additionally, its AC priority switch function enables automatic transition from the battery (DC) to mains (AC) and vice versa whenever there's a power outage or restoration, ensuring an uninterrupted power supply. This inverter is a crucial component for rounding up any off-grid system, as many of them necessitate a 12V solar inverter to power daily electronics, ranging from computers to coffee makers. Incorporate this compact solar power inverter into your system to reliably power your devices.

KEY FEATURE

- **Easy connection and power worry-free**
Provide stable and continuous power, free from power outages. Renogy's inverter with an on-grid transfer switch, you can seamlessly switch between on-grid AC and off-grid DC power, ensuring uninterrupted operation and worry-free energy.
- **Quiet operation**
Enjoy quiet operation with power supply, boasting a noise level of less than 51dB, With the help of a silent 12V inverter, all electronic devices run smoothly without any noise interrupting the peaceful ambiance.
- **Optimize efficiency**
Experience superior performance with renogy pure sine wave inverter, exceeding 92% inverter efficiency, while power consumption is less than 12%, ensuring cost-effective operation and minimal impact on the environment.
- **A smarter life**
Renogy DC home power supply comes with built-in Bluetooth and a remote control, providing effortless connectivity and ultimate convenience.
- **Safety assure**
Renogy DC home power supply is equipped with cooling heating sink fans and comes with low and high voltage protection, low and high current protection, short-circuit protection, ensuring maximum safety with inverter monitoring.

TECHNICAL SPECIFICATIONS

General

Model	RIV1210PU-126	RIV1220PU-126	RIV1230PU-126
Output Waveform	Pure Sine Wave		
AC Terminals	2 x AC Sockets + Terminal Block	2 x AC Sockets + Terminal Block	3 x AC Sockets + Terminal Block
DC Terminals	M8-25		
Operating Temperature	-4°F ~ 113°F / -20°C ~ 45°C		
Storage Temperature	-40°F ~ 158°F / -40°C ~ 70°C		
Humidity	Max 95%, Non-condensing		
Cooling	Thermally Controlled Fans		
Enclosure Rating	IP20		
Dimensions (LxWxH)	15.2 x 8.1 x 3.5 in 385 x 205.4 x 88.9 mm	17.1 x 9.9 x 3.8 in 455 x 250.4 x 95.3 mm	15.9 x 10.4 x 3.8 in 496 x 263.4 x 95.3 mm
Weight	7.5 lbs. / 3.4 kg	11.9 lbs. / 5.4 kg	14.3 lbs. / 6.5 kg
Certification	UL458, FCC Part15 ClassB		
Front Plate Dimensions	4.3 x 2.6 x 1.3 in 108 x 67 x 32 mm	4.3 x 2.6 x 1.3 in 108 x 67 x 32 mm	4.3 x 2.6 x 1.3 in 108 x 67 x 32 mm
Wired Length	16.40ft		

Electrical

Continuous Output Power	1000W	2000W	3000W
Continuous Output Current	8.3A AC	16.6A AC	25A AC
Total Harmonic Distortion (THD)	≤3%		
Power Factor	1.5A		
Surge Rating	2000W (@ 2s)	4000W (@ 2s)	6000W (@ 2s)
Output Voltage	120V AC±3%		
Output Frequency	50/60Hz		
Rated Battery Input Voltage	12VDC		
Battery Input Voltage Range	11-15.5VDC		
Maximum Continuous Battery Output Current	183.3A	166.6A	83.3A
Inverter Efficiency	>92%		
Full Load Efficiency	>90%		
Power Consumption	<12W	<18W	<12W
Battery Overvoltage Shutdown	16.0VDC±0.3VDC		
Battery Low Voltage Alarm	11.0VDC±0.3VDC		
Battery Low Voltage Shutdown	10.5VDC±0.3VDC		