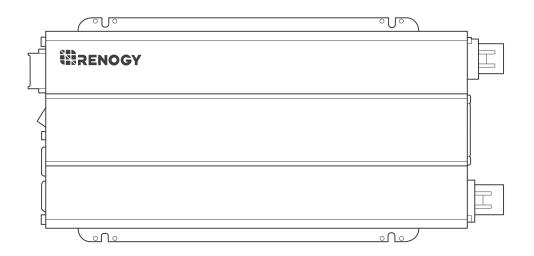


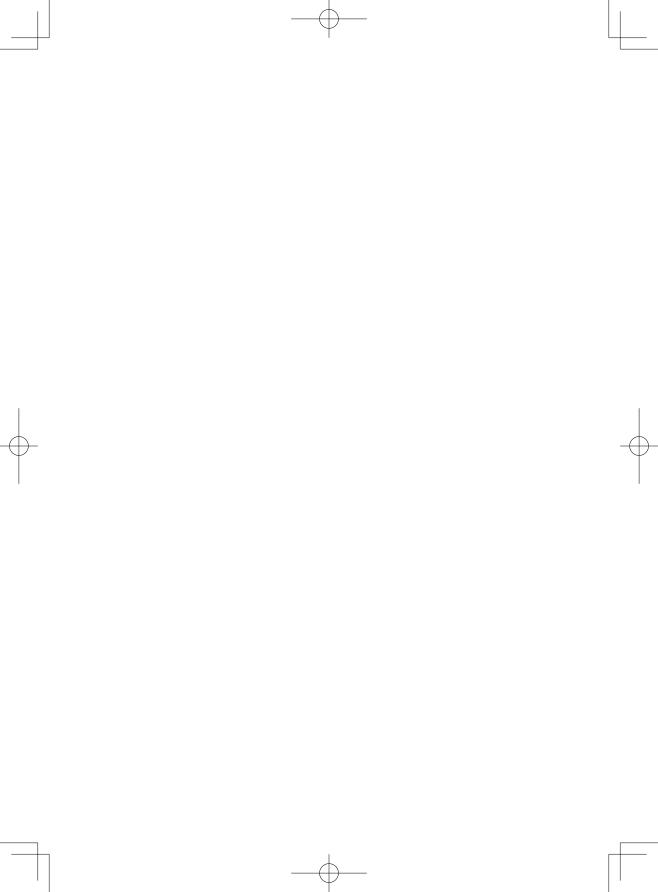
Renogy Pure Sine Wave Inverter

12V 700W/1000W/2000W/3000W

VERSION A2



USER MANUAL



Applicability

The user manual applies to the following products:

- 700W 12V Pure Sine Wave Inverter (RNG-INVT-700-12V-P2)
- 1000W 12V Pure Sine Wave Inverter (RNG-INVT-1000-12V-P2)
- 2000W 12V Pure Sine Wave Inverter (RNG-INVT-2000-12V-P2)
- 3000W 12V Pure Sine Wave Inverter (RNG-INVT-3000-12V-P2)

Disclaimer

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- The illustrations in the user manual are for demonstration purposes only. Details may appear slightly different depending on product revision and market region.
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Date and Revision

February 2023, Revision A2

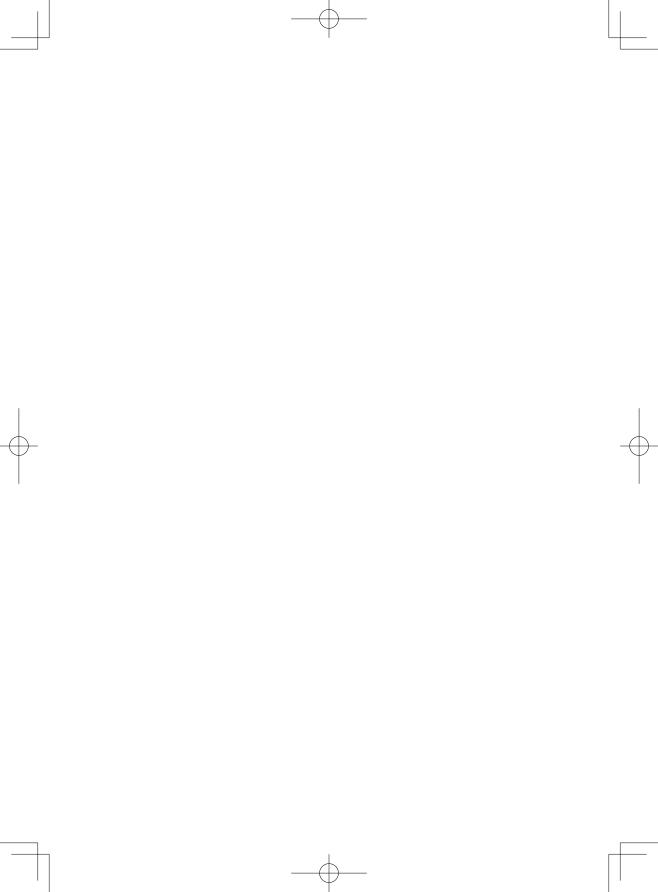


Table of Contents

Important Safety Information	01
Symbols Used	01
General Safety Information	01
Introduction	03
General Information	03
Key Features	03
Pure Sine Wave	04
Package Contents	05
Product Overview	06
700W Inverter	06
1000W Inverter	08
2000W or 3000W Inverter	10
Wiring Diagram	12
700W Inverter	12
1000W Inverter	14
2000W or 3000W Inverter	16
Installation	18
Plan an Installation Site	18
Size a Battery Bank	19
Ground	20
DC Wiring	20
AC Wiring	22
Operation	24
Operations on Inverter	24
Wired Remote Control	24
LED Overview	25
Troubleshooting	26
Dimensions	27
700W Inverter	27

1	1000W Inverter	27
2	2000W Inverter	. 28
3	3000W Inverter	28
Spec	ifications	. 29
C	General Data	. 29
E	Electrical Data	. 29
٧	Vired Remote Data	30
Tech	nical Support	31

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Important Safety Information

Symbols Used

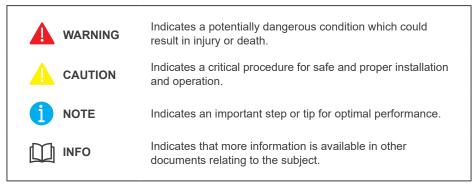
General Safety Information

The user manual provides important installation, operation, and maintenance instructions for 12V 700W/1000W/2000W/3000W Pure Sine Wave Inverter. Please read the user manual carefully before installation and operation and save it for future reference.

Failure to observe the instructions or precautions in the user manual can result in electrical shock, serious injury, or death, or can damage the inverter, potentially rendering it inoperable. The installation and service of the inverter might require knowledge of electricity and is recommended to be carried out by qualified personnel.

Symbols Used

The following symbols are used throughout the user manual to highlight important information:



General Safety Information



WARNING

- Have the inverter installed by a qualified technician in accordance with the local and national electric codes (NEC).
- There are no serviceable parts for this inverter. Do not disassemble or attempt to repair the inverter.
- Ensure all connections going into and from the inverter are tight. There may be sparks when making connections; therefore, there should not be flammable materials or gases near the installation site.
- The inverters are suitable for 12V battery banks ONLY.
- Always ensure the inverter is in OFF position and disconnect all AC and DC devices associated with the inverter.
- Never connect the AC output of the inverter directly to an Electrical Breaker Panel or Load Center which is also fed from the utility power or generator.
- Please confirm the polarity of the devices before connection. A reverse polarity contact can cause injury and damage the device.
- Be careful when touching bare terminals of capacitors as they may retain high lethal voltages even after power is removed.

Important Safety Information

Symbols Used

General Safety Information

- Do not let the positive (+) and negative (-) terminals of the battery touch each other. Use only deep-cycle sealed lead-acid, flooded, gel, or lithium batteries.
- Risk of explosion! Never install the inverter in a sealed enclosure with flooded batteries! Do not install in a confined area where battery gases can accumulate.
- Be careful when working with large lead acid batteries. Wear eye protection and have fresh water available in case there is contact with the battery acid.
- Overcharging and excessive gas precipitation may damage the battery plates and activate material shedding on them. Too high of an equalizing charge or too long of one may cause damage. Carefully review the requirements of the specific battery in use.

CAUTION

- Install the inverter in a well-ventilated, cool, and dry environment. Make sure the fans of the inverter and the ventilation holes are not blocked.
- Do not expose the unit to rain, moisture, snow, or liquids of any type.

Introduction

General Information

Key Features

Pure Sine Wave

General Information

Renogy 12V 700W/1000W/2000W/3000W Pure Sine Wave Inverter (hereinafter referred to as inverter) is perfect for most off-grid systems, whether for a van, semi-trucks, fifth wheels, cabin, or any remote location needing power. The inverter converts DC Power stored in batteries into usable AC Power for appliances. The advanced Renogy pure sine wave technology will allow you to power just about any AC appliance without risk of damage to even your most sensitive equipment.

Key Features

Powerful DC-AC Conversion

Continuous rated output power with a conversion efficiency greater than 90%, and up to 2x surge for start-up loads.

Safe for Use

Integrated GFCI, overload, overtemperature, overvoltage, short-circuit, and undervoltage protection.

Guaranteed Protection on Appliances

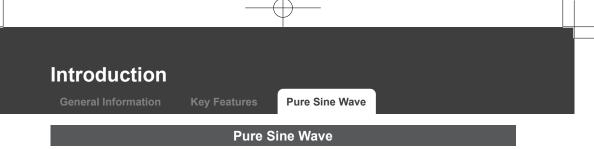
Pure sine wave technology is similar if not better than grid power and can extend appliance life by providing a smooth sine wave so as to not damage it. No strange buzzing sounds and your devices can run smoothly.

Ease to Use

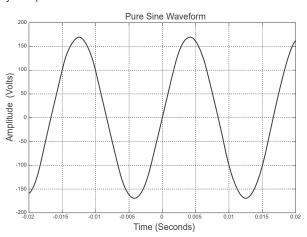
Offers a built-in 5 V/2.1 A USB port, AC Outlet(s), Hardwired AC Output Terminal Block, and a Wired Remote Port.

Reliable Quality

ETL listed to CSA Standard C22.2 No. 107.1 and UL 458.

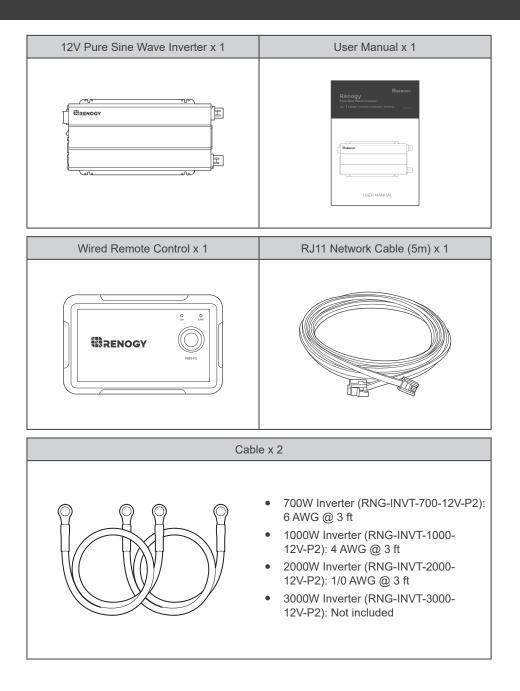


The inverter outputs a pure sine wave similar to the waveform of the grid power. In a pure sine wave, the voltage rises and falls in a smooth fashion with very low harmonic distortion and cleaner utility-like power.



This technology allows the inverter to supply electronic devices that require a high quality waveform with little harmonic distortion. In addition, the technology enables the inverter to be more efficient than traditional ones, allowing you to use less energy to supply more devices. The inverter can provide sufficient, stable power for tools, fans, lights, computers, and other electronics without any interference.

Package Contents

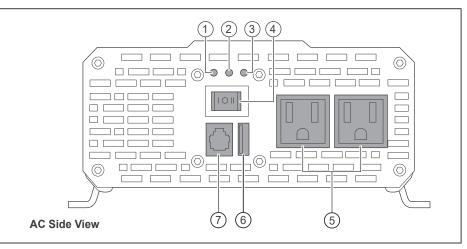


700W Inverter

1000W Inve

2000W or 3000W Inverter

700W Inverter

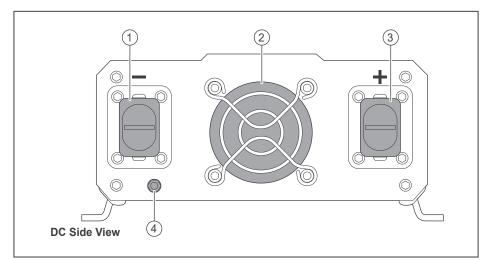


No.	Part	Description	
1	Power LED (Green)	Indicates the operation status of the inverter.	
2	GFCI LED (Yellow)	Indicates that the ground fault circuit has been interrupted.	
		In such case, restart the inverter.	
3	Fault LED (Red)	Indicates that the inverter shuts down due to overheating, overload, undervoltage, or overvoltage. Solution: Immediately turn off all AC appliances. Allow the inverter to cool before continuing. Make sure that the ventilation vents are not blocked.	
		If an inverter shutdown was preceded by a buzzing sound, there may be an excessive load in combination with low voltage or a cable problem.	
4	ON/OFF/REM Switch	Turns inverter ON, OFF, or REMOTE.	
5	AC Outlets	 115V AC 60 Hz: Up to 15 A for 2000W and 3000W models Up to 8.7 A for 1000W models Up to 6.1 A for 700W models 	
6	USB Power Port	Supplies 5V/2.1 A for charging tablets, smartphones, and other small appliances.	
7	Remote Control Terminal	Connects to the Wired Remote Control.	

700W Inverter

1000W Invert

2000W or 3000W Inverter



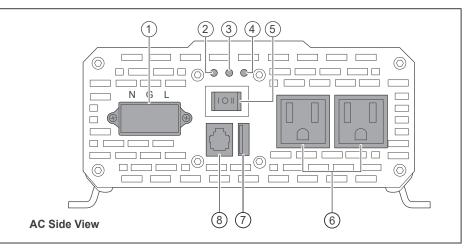
No.	No. Part		Part
1 Negative (-) DC Input, M8		3	Positive (+) DC Input, M8
2 Cooling Fan		4	Ground, M4

700W Inverte

1000W Inverter

2000W or 3000W Inverter

1000W Inverter



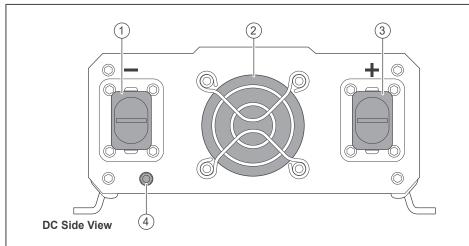
No.	Part	Description	
		Connect to 115V AC devices operating at higher than 15 A or distributed wiring with multiple AC outlets.	
		Remove the two screws on the protective cover to access the terminals.	
1	High Output AC Terminals	Terminal layout (facing the front panel)	
		Left: Neutral (N)	
		Middle: Ground (G)	
		Right: Live (L)	
		Note that Neutral and Ground are bonded inside.	
2	Power LED (Green)	Indicates the operation status of the inverter.	
3	3 GFCI LED (Yellow)	Indicates that the ground fault circuit has been interrupted.	
		In such case, restart the inverter.	
		Indicates that the inverter shuts down due to overheating, overload, undervoltage, or overvoltage.	
4	Fault LED (Red)	Solution: Immediately turn off all AC appliances. Allow the inverter to cool before continuing. Make sure that the ventilation vents are not blocked.	
		If an inverter shutdown was preceded by a buzzing sound, there may be an excessive load in combination with low voltage or a cable problem.	

700W Inverte

1000W Inverter

2000W or 3000W Inverter

No.	Part	Description	
5	ON/OFF/REM Switch	Turns inverter ON, OFF, or REMOTE.	
6	AC Outlets	 115V AC 60 Hz: Up to 15 A for 2000W and 3000W models Up to 8.7 A for 1000W models Up to 6.1 A for 700W models 	
7	USB Power Port	Supplies 5V/2.1 A for charging tablets, smartphones, and other small appliances.	
8	Remote Control Terminal	Connects to the Wired Remote Control.	



No.	No. Part		Part	
1 Negative (-) DC Input, M8		3	Positive (+) DC Input, M8	
2 Cooling Fan		4	Ground, M4	

700W Inver

1000W Inve

2000W or 3000W Inverter

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2000W or 3000W Inverter

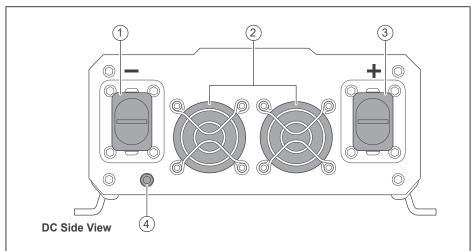
No.	Part	Description	
1	ON/OFF/REM Switch	Turns inverter ON, OFF, or REMOTE.	
2	Power LED (Green)	Indicates the operation status of the inverter.	
3	GFCI LED (Yellow)	Indicates that the ground fault circuit has been interrupted. In such case, restart the inverter.	
4	Fault LED (Red)	Indicates that the inverter shuts down due to overheating, overload, undervoltage, or overvoltage. Solution: Immediately turn off all AC appliances. Allow the inverter to cool before continuing. Make sure that the ventilation vents are not blocked. If an inverter shutdown was preceded by a buzzing sound, there may be an excessive load in combination with low voltage or a cable problem.	

700W Invert

1000W Inve

2000W or 3000W Inverter

No.	Part	Description
5	High Output AC Terminals	Connect to 115V AC devices operating at higher than 15 A or distributed wiring with multiple AC outlets. Remove the two screws on the protective cover to access the terminals. Terminal layout (facing the front panel) • Left: Neutral (N) • Middle: Ground (G) • Right: Live (L) Note that Neutral and Ground are bonded inside.
6	AC Outlets	 115V AC 60 Hz: Up to 15 A for 2000W and 3000W models Up to 8.7 A for 1000W models Up to 6.1 A for 700W models
7	USB Power Port	Supplies 5V/2.1 A for charging tablets, smartphones, and other small appliances.
8	Remote Control Terminal	Connects to the Wired Remote Control.



No. Part		No.	Part
1 Negative (-) DC Input, M8		3	Positive (+) DC Input, M8
2 Cooling Fans		4	Ground, M4

11

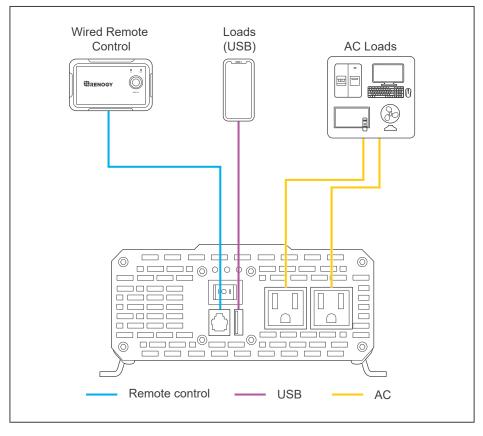
700W Inverter

1000W Inve

2000W or 3000W Inverter

700W Inverter

AC Side View

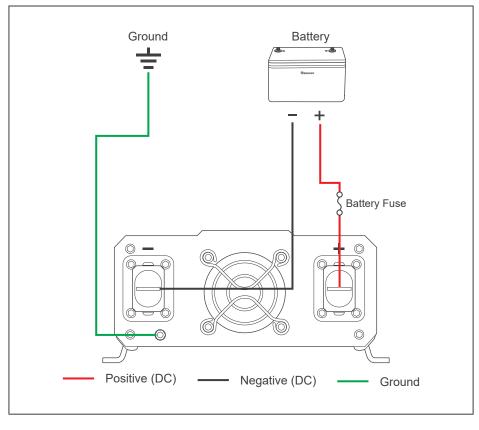


700W Inverter

1000W In

2000W or 3000W Inverte

DC Side View



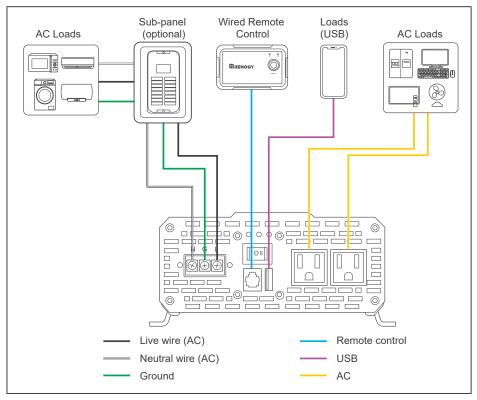
700W Invert

1000W Inverter

2000W or 3000W Inverte

1000W Inverter

AC Side View

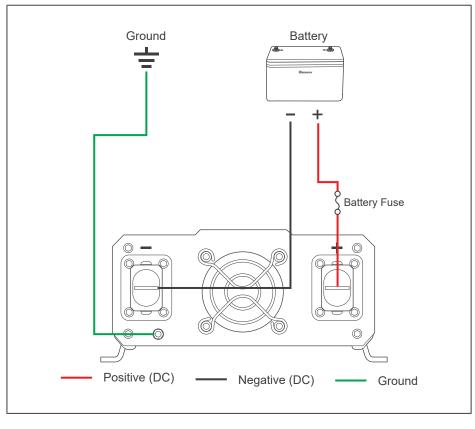


700W Inverte

1000W Inverter

2000W or 3000W Inverte

DC Side View

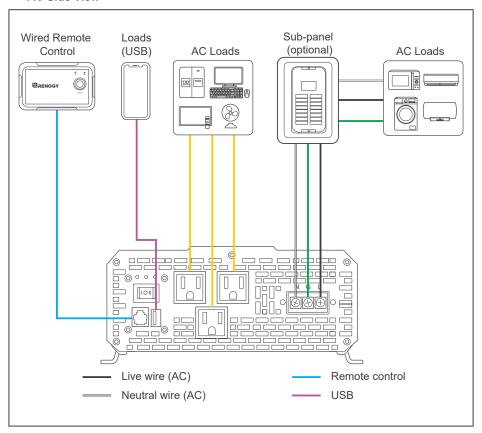


700W Inver

1000W Inve

2000W or 3000W Inverter

AC Side View



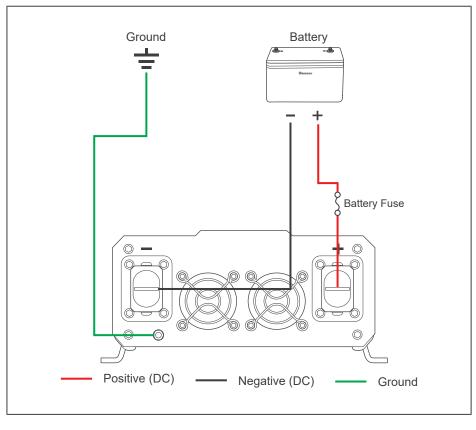
2000W or 3000W Inverter

700W Invert

1000W Inv

2000W or 3000W Inverter

DC Side View



17

Plan an Installation Site

Size a Battery Bank

tery Bank Gro

- Do not over-torque or overtighten the terminals. This could potentially damage the unit.
- Refer to the technical specifications for maximum wire sizes on the controller and for the maximum amperage going through wires.

- Ensure the inverter is in the OFF position before connecting to anything.
- Do not install the inverter in the same compartment as the battery bank because it could serve as a potential fire hazard.
- Never mount the inverter vertically on a vertical surface since it would present a hazard for the fan opening, undermining cooling the inverter.

Plan an Installation Site

Follow the guidelines below:

Cool, dry, well-ventilated area

The inverter must be installed in a site where the fans are not blocked or where they are not hit directly by the sun. The site should be free of any kind of moisture with a clearance of at least 10 inches around the inverter for adequate ventilation.

Protection against fire hazard

The inverter should be away from any flammable material, liquids, or any other combustible material.

Close proximity to battery bank

Put the inverter close to batteries banks to prevent excessive voltage drop. Choose a proper sized wire going from the battery bank to the inverter.

• Limiting electromagnetic interference (EMI)

Ensure the inverter is firmly grounded to a building or vehicle. Alternatively, it can be earth grounded. Keep the inverter away from EMI receptors such as TVs, radios, and other audio/ visual electronics to prevent damage/interference.

Secure mounting

The inverter should be stand-alon or mounted by using the outlying terminals with M3 and M6 screws on the inverter.

Plan an Installation Site

Size a Battery Bank

/ Bank Grou

ound DC

J AC Wiring

Size a Battery Bank

Battery types and capacity relate to the overall inverter performance. To size a proper battery bank, you need to identify the loads that you will be utilizing, as well as an estimate duration (hours/day) you will be using the load. The inverter is only compatible with 12V battery banks and oversizing should be considered due to efficiency losses.

1. Determine Your Watts (Amps x Volts)

Every electronic will have a sticker or plate identifying the watts directly (W) or will show you the voltage value (V) as well as amperage (A) which need to be multiplied to get Watts. The formula is below:

Watts (W) = Volts (V) x Amps (A)

Example: Fan Watts = 120V * 0.4A = 48Watts

2. Estimate Load Run-Time in Watt-Hours (Wh)

Estimate how many hours per day you will be using the load and multiply this by your Watts per load.

Example: Fan Watts x 12 hours = Watt-Hour (Wh)

46W x 12h = 576Wh

3. Determine Battery Capacity in Amp-Hour (Ah)

Divide your Load Run Watt-Hour result by the battery voltage.

Load Run-Time (Wh)/Battery Voltage (V) = Amp-Hour (Ah)

Use 12V, supported voltage of the inverter as a reference.

576Wh/12V = 48 Ah

4. Oversize the Battery

The calculated Amp-Hour value represents the minimum size battery capacity to run your load for your intended time. Note that this assumes 100% use of a battery, which is not recommended. Assuming 50% depth of discharge, you want to multiply this value by 2 and you also want to multiply by 1.25 to account for some efficiency losses.

Formula:

48Ah x Oversize x Efficiency Losses = Recommended Amp-Hour

48 x 2 x 1.25 ≈ 115Ah

Therefore, a 115Ah battery bank, or close, will be able to support a 12-hour run time while also prolonging battery life for the best system size possible.



- You will need a battery charging source as this is a non-charging inverter and will only work to deplete the battery.
- Actual battery quantities vary by battery capacity and rates of discharge.

Size a Battery Bank

Ground **DC Wiring**

Ground

If available, the chassis ground lug should be connected to a ground point such as a vehicle chassis or boat grounding system. In fixed locations, connect the ground lug to earth ground. The connections to ground must be tight and against bare metal. Grounding is highly recommended for both when using the inverter in a mobile application, such as an RV, or in a building.

Recommended wire material: insulated copper strand wire

Recommended wire size:

- 14AWG to 18AWG (700W) .
- 14AWG (1000W)
- 12AWG (2000W)
- 10AWG (3000W)

DC Wiring



CAUTION

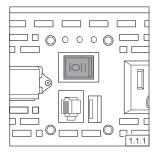
Be careful of the positive and negative poles. Reversing the poles might cause permanent damage to the inverter and will void the warranty.

WARNING

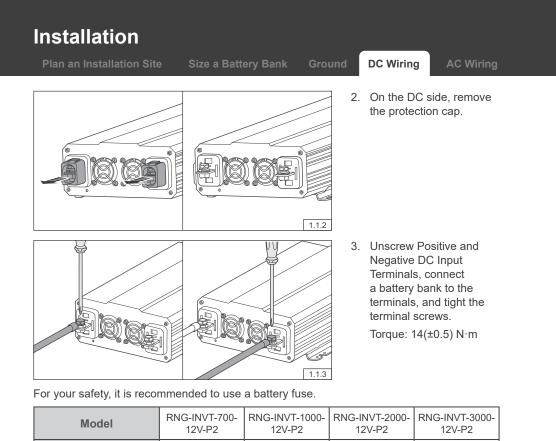
The inverter is suitable for 12V battery bank systems ONLY. Not following the minimum DC requirement will cause irreversible damage to the device.

NOTE

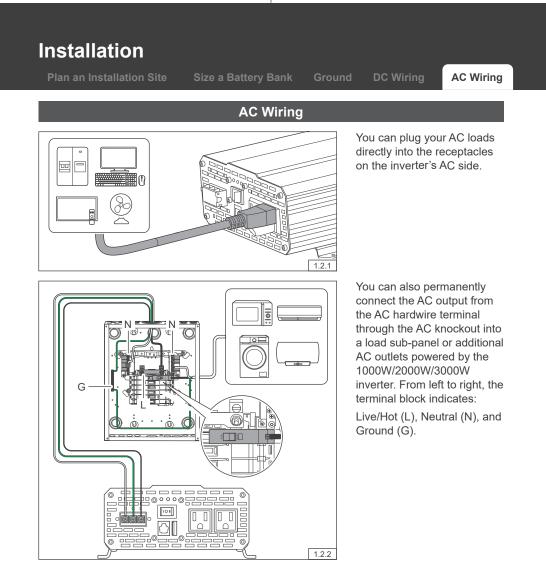
• The input terminals of the inverters are embedded with large capacitors. The input circuit is completed once the terminals are connected to both positive and negative wires. This commences drawing a heavy current momentarily. As a result, there may be a sparking occurring even if the inverter is in the off position. To minimize sparking, it is recommended that you should choose an appropriate sized wire feeding into the inverters and/or install an external fuse leading into the inverter.



1. On the AC side, set the ON/OFF Switch to the OFF position.



	Model	12V-P2	12V-P2	12V-P2	12V-P2
	Continuous Output Power	700W	1000W	2000W	3000W
	Battery Fuse	100A	150A	250A	400A



Recommended Ground-Fault Circuit Interrupter (GFCI)

A ground-fault circuit interrupter, or GFCI, is a device that help protect people from electric shocks by de-energizing a circuit or portion of a circuit within an established period of time when a current to ground exceeds some predetermined value that is less than that required to operate the overcurrent device (circuit breaker or fuse) of the supply circuit. GFCIs are usually required in wet or damp locations.

While the inverter is equipped with a GFCI, it is recommended to install an external GFCI where you can manually test the circuit.

The following table lists GFCIs that meet the specifications and will function properly when they are connected to the AC Outlets of the inverter.

 Plan an Installation Site
 Size a Battery Bank
 Ground
 DC Wiring
 AC Wiring

 Tested GFCI Models

 Manufacturer
 Model Number

 Leviton
 GFNT2

 Hubbell
 GFP1305

 Hubbell
 GF15WLA

• Risk of electrical shock. Use only ground-fault circuit interrupters [receptacle(s) or circuit breaker(s)] compatible with your inverter.



CAUTION

• GFCIs shall be installed in a recreational vehicle's wiring system to protect all branch circuits.

Operation

Operations on Inverter

Wired Remote Control

Operations on Inverter

After proper battery and AC load connections, you can operate the inverter.

- 1. On the AC side, rock the ON/OFF Switch to the ON position.
- 2. The inverter is operating normally.
- 3. When finishing using the inverter, power off the AC loads first, and then rock the ON/OFF Switch to the OFF position.



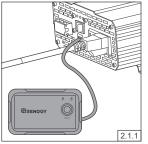
CAUTION

- When the inverter turns on, it is normal to hear the fans run for a second and hear a beep.
- Avoid powering on the inverter with the load (electronic devices) already switched on. This may trigger an overload since some electronic devices have an initial high power surge to start.
- When switching off the inverter, turn off the electronic devices first. Although the inverter is off, the terminal capacitors will still have a charge, so the DC and AC terminals must be disconnected if altering the circuitry.

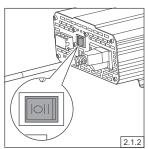
Wired Remote Control

The Wired Remote Control gives you the opportunity to power on/off the inverter from a distance (approximately 16.4 ft / 30.5 mm).

Note that the inverter ON/OFF switch should be in the REM position.



1. Connect the Wired Remote Control to the inverter via the Remote Control Connector.



 Rock the ON/OFF Switch to the REM position, and you can power on/off the inverter via the Wired Remote Control.

LED Overview

LED Status	Alarm	Protection & Alarm	Inverter Status
Fault LED in solid red		Overtemperature protection	No output from the inverter.
	Long steady beeping sound	Undervoltage shutdown	No output from the inverter.
		Overload protection	No output from the inverter output side. After 5s, the inverter automatically restarts. After five times of failed restart, the inverter needs to be restored by manually turning it on.
Fault LED off	No sound	Short circuit protection	No output from the inverter output side. After 5s, the inverter automatically restarts. After five times of failed restart, the inverter needs to be restored by manually turning it on.
Power LED in solid green and fault LED off	Beeping sound	Undervoltage alarm	Constant output from the inverter.
Power LED in solid green	No sound	Recovery from undervoltage	Normal output from the inverter output side.
GFCI LED in solid yellow GF	No sound	GFCI protection	 No output from the inverter output side. Please disconnect appliances and turn off the ON/OFF switch to reset, then try to connect different appliances separately and see if the yellow LED of the inverter is always on. If not, it indicates a current leakage problem on the appliance. If it's always on, please contact Renogy to deal with it.

Troubleshooting

Indicator & Alarm	Potential Issue	Solution	
Alarm beeps	Input voltage is below 11V.	Keep input voltage above 11V.	
	Input voltage is above 16.0V.	Keep input voltage below 16.0V.	
	Input voltage is below 10V.	Keep input voltage above 10V.	
	Input voltage is above 16.5V.	Keep input voltage below 16.5V.	
Fault LED lit, long beeping alarm		Allow inverter to cool down.	
sound, and inverter shutdown	Inverter overheats	Check for adequate ventilation.	
		Reduce the load on the inverter.	
	Operating equipment draws too much power	Use a higher wattage inverter or use a lower powered device.	
	Inverter is short circuited	Disconnect the inverter and turn off the ON/OFF Switch to reset.	
Yellow LED lit and Inverter shut down GF	GFCI tripped	Disconnect appliances and turn off the ON/OFF Switch to reset.	

Dimensions Yow Inverter 1000W Inverter 3000W Inverter Yow Control Control Town of the state of

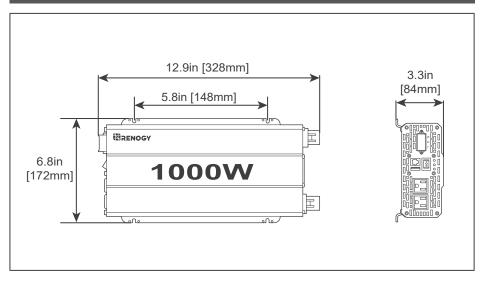
1000W Inverter

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700W

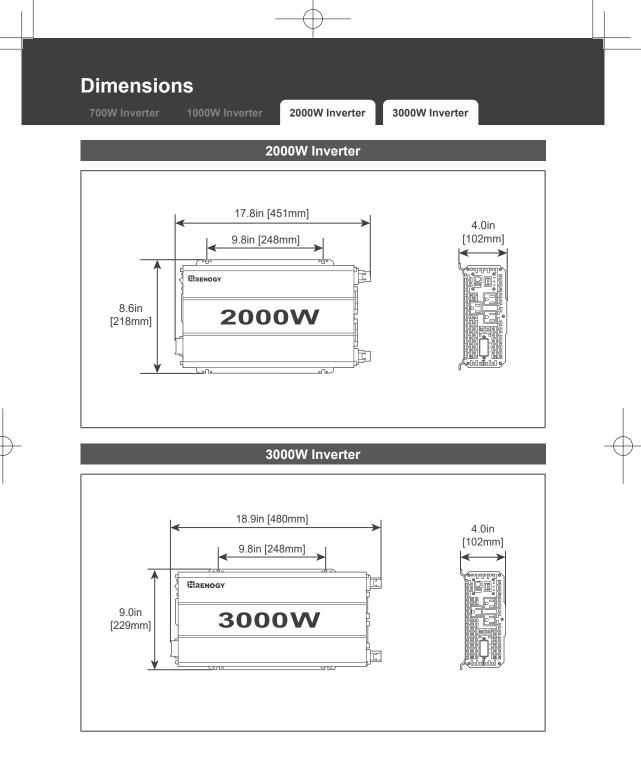
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27

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Specifications

General Data

Electrical Data

Wired Remote Data

General Data

Model	RNG-INVT-700- 12V-P2	RNG-INVT-1000- 12V-P2	RNG-INVT-2000- 12V-P2	RNG-INVT-3000- 12V-P2
Output Waveform	Pure Sine Wave			
AC Terminals	2 x AC Sockets + Terminal Block 3 x AC Sockets + Termir		+ Terminal Block	
DC Terminals	M8 - 1.25 x 15 mm			
Operating Temperature	-4°F to 104°F / -20°C to 40°C			
Storage Temperature	-40°F to 158°F / -40°C to 70°C			
Humidity	Max 93%, non-condensing			
Cooling	Thermally Controlled Fans			
Dimensions (L x W x H)		12.9 × 6.8 × 3.3 in / 328 × 173 × 84 mm	17.8 × 8.6 × 4 in / 452 × 218 × 102 mm	18.9 × 9 × 4 in / 480 × 229 × 102 mm
Weight	5.6 lb	6.0 lb	11.7 lb	12.5 lb
Regulatory and Safety Specifications	UL certified to 458 and to CSA 22.2 No. 107.1-01			

Electrical Data

Model	RNG-INVT-700- 12V-P2	RNG-INVT-1000- 12V-P2	RNG-INVT-2000- 12V-P2	RNG-INVT-3000- 12V-P2
Continuous Output Power	700W	1000W	2000W	3000W
Continuous Output Current	5.8A AC	8.3A AC	16.6A AC	25A AC
Total Harmonic Distortion (THD)	<3%			
Power Factor	0.9 to 1			
Surge Rating	1400W (@ 1s)	2000W (@ 1s)	4000W (@ 1s)	6000W (@ 1s)
Output Voltage	115V AC			
Output Frequency	60Hz			
Rated Battery Input Voltage	12V DC			

Specifications

General Dat

Electrical Data

Wired Remote Data

Battery Input Voltage Range	10V to 16V DC			
Maximum Continuous Battery Output Current	58.3A	83.3A	166.6A	250A
Inverter Efficiency	>90%			
Full Load Efficiency	>85%			
Power Consumption	<10W	<12W	<24W	<30W
Battery Overoltage Shutdown	16.5V (±0.3V) DC			
Battery Low Voltage Alarm	11V (±0.3V) DC			
Battery Low Voltage Shutdown	10.5V (±0.3V) DC			

Wired Remote Data

Front Plate Dimensions	3.6 x 2.02 x 1.4 in / 92.2 x 51.2 x 35.56 mm
Wired Length	16.4 ft

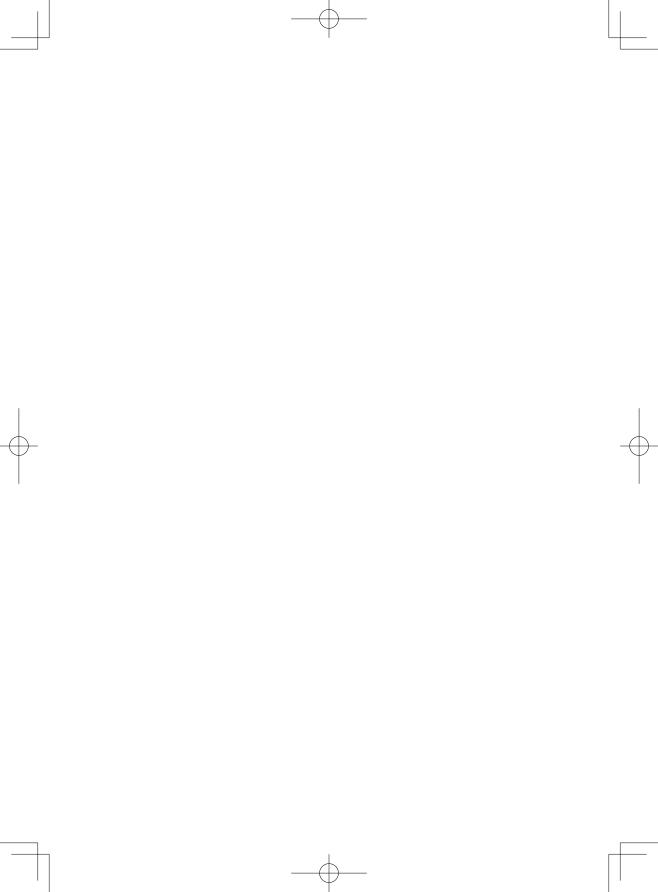
Technical Support

For additional support, contact the Renogy technical support team through <u>renogy.com/</u> <u>contact-us</u>. Have the following information available when contacting Renogy.

- Owner name
- Contact information
- Order number
- Purchase channel
- Serial number
- Brief description of the issue

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Renogy aims to empower people around the world through education and distribution of DIYfriendly renewable energy solutions.

We intend to be a driving force for sustainable living and energy independence.

In support of this effort, our range of solar products makes it possible for you to minimize your carbon footprint by reducing the need for grid power.

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Save 300 pounds of CO_2 from being released into the atmosphere



Save 105 gallons of water from being consumed

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Also, follow us on Youtube @Renogy Solar, Facebook @Renogy, and Instagram @ renogyofficial.



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