

**E8038**



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1     **IMPORTANT SAFETY INSTRUCTIONS**

This manual contains important information regarding safety, operation, maintenance and storage of this product. before use, read and understand all cautions, warnings, instructions and product labels, plus your Greenworks’s battery manufacturer guidelines. Failure to do so could result in injury and/or property damage.

To ensure reliable service, your machine must be installed and used properly. Please read the installation and operating instructions thoroughly prior to installation and use. Pay attention to the **WARNING** and **CAUTION** statements in this manual. The **CAUTION** statements advise against certain conditions and practices that may result in damage to your machine. The **WARNING** statements identify conditions or practices that may result in personal injury. Read all instructions before using this machine!

**TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, EXPLOSION OR INJURY:**

- Do not connect to AC distribution wiring.
- Remove appliance plug from outlet strip or turn off inverter before working on the appliance. Multiple outlet power strips with switches and circuit breakers only interrupt power to the “hot” receptacle terminals. The “neutral” terminals remain powered with respect to the “ground” terminals.
- Do not make any electrical connections or disconnections in areas designated as **IGNITION PROTECTED**.
- This is not a toy - keep away from children.
- DO NOT install object into air vents.
- Reverse polarity connection will cause the unit to malfunction and may permanently damage the machine.
- Grounding the neutral will damage the machine. Do not operate this machine if it is wet. Do not install in engine compartment – please install in a well-ventilated area.
- This machine is not tested for use with medical devices.

**▲ WARNING**

To avoid risk of fire, electrical shock, or electrocution:

- Do not use a damp cloth or detergent on the battery or battery charger.
- Always remove the battery pack before cleaning, inspecting, or performing any maintenance on the tool.

2     **SPECIAL RULES FOR CHARGER**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- Appliance shall not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.

- This device must accept any interference received, including interference that may cause undesired operation.

**▲ CAUTION**

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**i NOTE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. The reception can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3     **POWER SOURCE REQUIREMENT**

The power source must be able to supply the necessary current to operate the load. The Greenworks 60V battery is the only DC power source to be used with this product.

4     **CONNECTION TO LOAD**

The inverter is equipped with an AC power receptacle. Plug the cord from the equipment you wish to operate into an AC receptacle. The green LED indicator lights to indicate that the inverter is functioning. Make sure the combined load requirement of your equipment does not exceed inverter’s output rating.

The inverter is engineered to be connected directly to standard electrical and electronic equipment in the manner described above.

**▲ WARNING**

- Do not connect the machine to household or RV AC distribution wiring.
- Do not connect the machine to any AC load circuit in which the neutral conductor is connected to ground (earth) or to the negative of the DC (battery) source.







## 5 OPERATION ENVIRONMENT

For best operating results, the machine should be placed on flat surface, such as the ground, car floor, or other solid surface. The machine should only be used in locations that meet the following criteria:

- **DRY-** Do not allow water and/or other liquids to come into contact with the machine.
- **COOL-** Do not place the inverter on or near a heating vent or any piece of equipment which is generating heat above room temperature. Keep the inverter away from direct sunlight, if possible.
- **SAFE-** Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases.

## 6 SYMBOLS ON THE MACHINE

You may find the below symbols on the machine. Please study them and learn their definitions. Correct interpretation of these symbols allow you to operate the tool safely.

Symbol	Explanation
	Class II
	For indoor use only
	Before charging, read the instructions
	Fuse

## 7 PROTECTIVE FEATURES

Your machine monitors the following potentially hazardous conditions:

**OVER TEMPERATURE PROTECTION** – If the temperature inside the inverter is too high, the unit will automatically shut down. Allow the unit to cool for at least 15 minutes before restarting after a heat related shutdown. Unplug unit while cooling.















**LOW BATTERY VOLTAGE PROTECTION** – This condition is not harmful to the inverter but could damage the power source. The inverter automatically shuts down when input voltage drops to 56 volts. When the condition is corrected, the unit may be restarted.

**OVER VOLTAGE PROTECTION** – The inverter will automatically shut down when the input voltage exceeds 85 volts DC.




**OVERLOAD PROTECTION** – The inverter will automatically shut down when the continuous draw exceeds rated watts.

**SHORT CIRCUIT PROTECTION** – The inverter will shut down. Remove the short circuit and restart the inverter after 5 minutes.

The LED lights indicate the working condition of the power inverter as follows:

Work condition	Green	Red	
Normal			
High-voltage protection			Inverter automatically shuts off when the voltage is too high.
Battery error			
Low battery voltage			
Short-circuit protection			Red light flashes in intervals of 4.
Overload protection			
Low-voltage protection			Red light flashes in intervals of 5.
Over temperature protection			Red light flashes in intervals of 6.

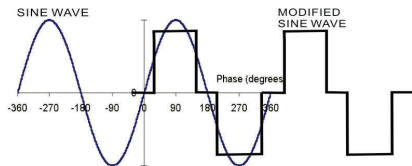
### i NOTE

	ON
	OFF
	BLINKING

## 8 WORKING PRINCIPLE

The inverter converts low voltage DC (Direct Current) from a Greenworks 60V lithium battery to standard 230-volt AC (Alternating Current) household power.

9 THE OUTPUT WAVEFORM



The AC output waveform of the 82PI1 inverter is known as “modified sine wave”. It is a waveform that has characteristics similar to the sine wave shape of utility power. This type of waveform is suitable for most AC loads, including linear and switching power supplies used in electronic equipment, transformers, and motors.

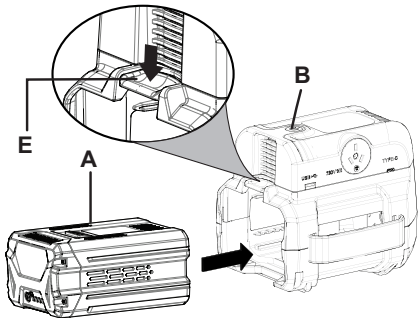
The modified sine wave produced by the 82PI1 inverter has an RMS (root mean square) voltage of 230 volts, which is the same as standard household power. Most AC voltmeters (both digital and analog) are sensitive to the average value of the waveform rather than the RMS value. They are calibrated for RMS voltage under the assumption that the waveform measured will be a pure sine wave. These meters will not read the RMS voltage of a modified sine wave correctly. They will read about 20 to 30 volts low when measuring the output of the inverter. For accurate measurement of the output voltage of this unit, use a true RMS reading voltmeter.

10 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.
	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a location that accepts lithium-ion batteries.

11 OPERATION

11.1 INSTALL THE BATTERY PACK



**i NOTE**

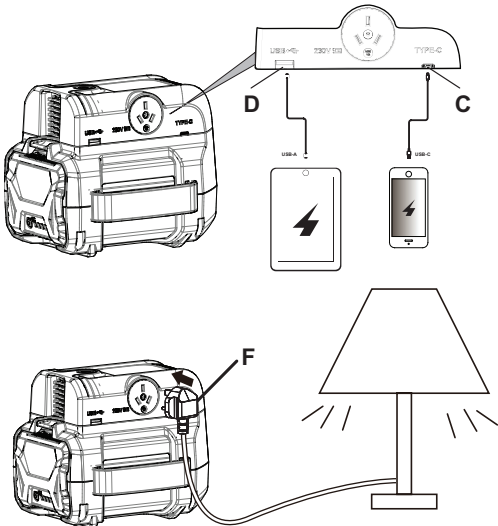
Shut off the power source or disconnect the battery when the power inverter is not in use.

1. Align the battery (A) with the cavity in the power inverter.
2. Hold the power inverter (A) firmly.
3. Insert the battery in the opening until the battery release button (E) locks into place. You should hear a “click” once it is installed.

11.2 REMOVE THE BATTERY PACK

1. Press the battery release button (E). This will cause the battery to raise out of the tool.
2. Hold the power inverter firmly. Pull the battery pack out of the power inverter.

11.3 OPERATE THE MACHINE



1. Insert the battery pack (A) into the power inverter.
2. Connect the plug (F) or USB (C) or USB (D) to the receptacle.
3. Press the power switch (B) to start the power inverter.

## 12 MAINTENANCE

### 12.1 CLEAN THE MACHINE

#### **i** NOTE

Keep the air vent free of blockage, saw dust, and wood dust. Do not spray, wash, or submerge in water.

- Clear the unwanted material out of the air vent with a vacuum.
- Clean housing and the plastic components with a soft, dry cloth.

#### **i** IMPORTANT

Do not use strong solvents or detergents on the plastic housing or components.

### 12.2 STOW THE MACHINE

- Remove the battery pack before you store the power inverter or disconnect the power inverter.

## 13 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Some AC appliances won't start.	The power needed to start some AC appliances may be as much as 2 to 8 times its continuous wattage requirements.	Read the information panel on each AC appliance carefully to accurately determine the tool's input wattage.
"BUZZING" sound in audio systems.	The power supply in the electronic device does not adequately filter the modified sine wave produced by the inverter.	Use a higher quality sound system that incorporates a higher quality power amplified supply.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Television interference.	The inverter is shielded to minimize interference with TV signals. The problem may not be with the inverter. However, in some instances, some interference may still be visible, particularly with weak TV signals.	Position the inverter as far as possible from the television, the antenna and the antenna cables. Use an extension cable, if necessary.
		Adjust the orientation of the inverter, the antenna cables and the TV power cord to minimize interference.
		Make sure that the antenna feeding the television provides an adequate ("snow free") signal and that high quality, shielded antenna cable is used.
		Do not operate high-power appliances or tools when you are watching TV.

## 14 TECHNICAL DATA

Input Voltage Range	60 volt DC
Rated Input Current	8 A
USB-A Output	5V/3.4A, 9V/2A, 12V/1.5A
USB-C Output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A
USB-A Output +USB-C Output	5V/2.4A*2
AC Output	230V AC RMS 50Hz, 1.5A
Weight (Without battery pack)	1.59 lbs
Operation Temperature	14°F-104°F (-10°C to 40°C) at 100% loading
Storage Temperature	-4°F-140°F (-20°C-60°C)
Output Waveform	Modified Sine Wave (filtered)

## 15 WARRANTY

(The full warranty terms and conditions can be found on Greenworks website [www.greenworksaustralia.com](http://www.greenworksaustralia.com))

The Greenworks warranty is 4 years on the product, and 2 years on batteries and chargers (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways then described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not

considered as warranty. The original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.