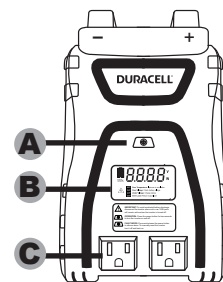


DURACELL® 1000/2000/3000 Watt High Power Inverters User Guide

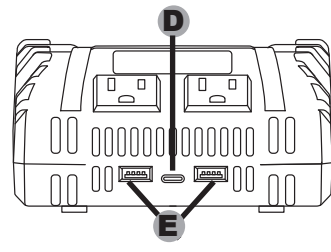
DURACELL® 1000/2000/3000 Watt High Power Inverters User Guide

Product Details

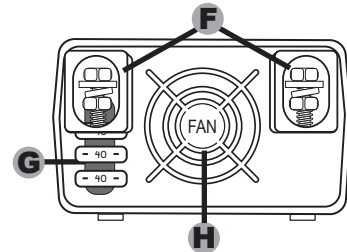
1000 Watt Inverter



- A. On/Off switch
- B. LCD screen
- C. 3-prong 115V/15A AC outlets (2 each)



- D. USB Type-C (1 port)
- E. USB Type-A (2 ports)

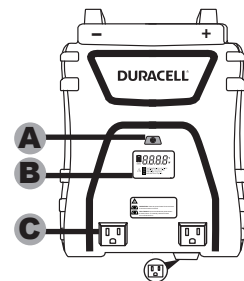


- F. Threaded positive (+) / negative (-) terminal connectors with covers
- G. User-replaceable fuses
- H. Cooling fan (IMPORTANT - DO NOT COVER)

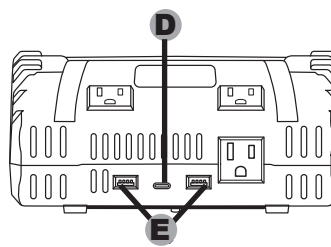


- I. Positive (+) / negative (-) heavy duty ring terminal input cables

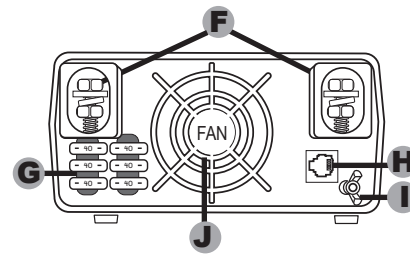
2000 Watt Inverter



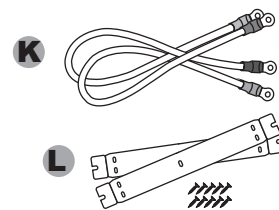
- A. On/Off switch
- B. LCD screen
- C. 3-prong 115V/15A AC outlets (3 each)



- D. USB Type-C (1 port)
- E. USB Type-A (2 ports)
- F. Positive (+) / negative (-) terminal connectors with covers



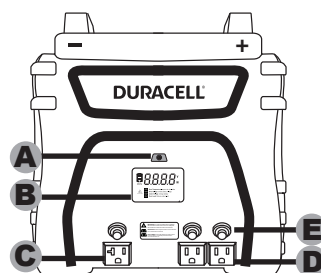
- G. User-replaceable fuses
- H. Input port for remote On/Off switch*
- I. Chassis ground connection
- J. Cooling fan (IMPORTANT - DO NOT COVER)



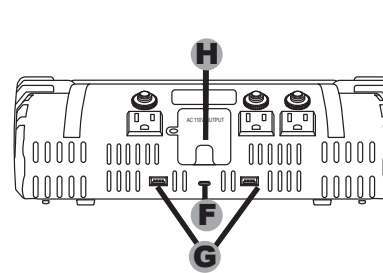
- K. Positive (+) / negative (-) heavy duty ring terminal input cables (1 pair)
- L. Mounting brackets (2 each) and screws (10 each)

*Remote on/off switch sold separately for 2000W model)

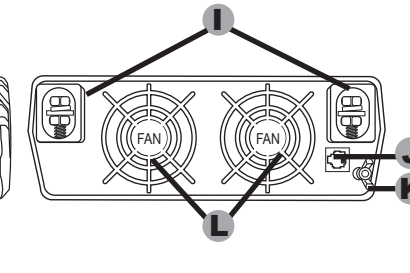
3000 Watt Inverter



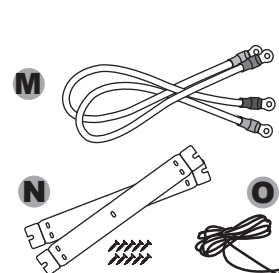
- A. On/Off switch
- B. LCD screen
- C. 3-prong 115V/20A AC outlet (1 each)
- D. 3-prong 115V/15A AC outlets (2 each)
- E. AC outlet reset buttons (3 each)



- F. USB Type-C (1 port)
- G. USB Type-A (2 ports)
- H. 110V direct-connect terminal



- I. Positive (+) / negative (-) terminal connectors
- J. Input port for remote On/Off switch**
- K. Chassis ground connection



- M. Positive (+) / negative (-) heavy duty ring terminal input cables (1 pair)
- N. Mounting brackets (2 each) and screws (10 each)
- O. Remote on/off switch (included)

**Remote on/off switch included with 3000W model)

Getting Started

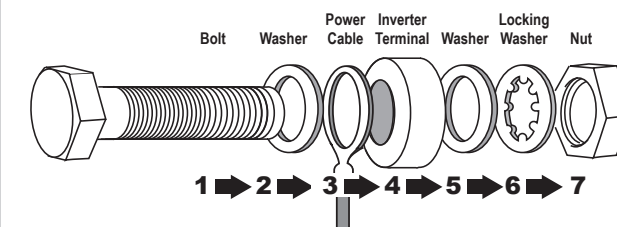
⚠ BEFORE YOU START: See Safety information section for important precautions. Failure to follow these instructions can damage the unit and could also result in personal injury. Sealed Lead Acid batteries have many hazards like high current, gases and acids. Please exercise caution. To avoid excess battery drain, turn the inverter OFF / disconnect after use.

Operation and Use

- 1** Remove the covers from the terminals. Thread the power input cable through the hole in each cover and connect to the inverter terminal (see below). Replace covers.
- 2** Connect the ring terminals to a 12 Volt battery. *
- 3** Plug in your AC / USB devices.
- 4** Turn the inverter ON. The power button will turn solid green and the LCD screen will light up.

Power Cable Connection

Connecting the power cable to the inverter terminal must be done in this order.



AC Outlet Reset Button

3000 Watt inverters: Each AC outlet features a manual reset button which acts as a breaker in the event of an overload or if the connected item is short-circuited.

If these faults occur, the button will pop out and the outlet will shut off. Unplug the connected item and press the button to reset. The other outlets are not affected and will still operate.

* ⚠ WARNING: Reverse Input

Please ensure that the **red (positive)** ring terminal on your input cable connects to the **positive (+)** terminal on both your battery and the inverter. The **black (negative)** ring terminal connects to the **negative (-)** terminal on the battery and inverter.

1000 and 2000 Watt inverters: Reverse input will blow the fuse and disable the unit. Replace fuses if this occurs.

3000 Watt inverters: Reverse input will permanently disable the unit and the inverter will need to be replaced.

⚠ WARNING: Battery Voltage

Your inverter is designed to connect to 12 Volt batteries only. Using a higher voltage battery will cause an over-voltage shutdown; using a lower-voltage will cause an under-voltage shutdown (see Troubleshooting Guide).

Safety Information

This section contains important safety information. Before using the inverter, READ ALL instructions and cautionary markings on or provided with the inverter, and all appropriate sections of this guide. The inverter contains no user-serviceable parts.

⚠ WARNING: FIRE AND/OR CHEMICAL BURN HAZARD

Do not cover or obstruct any air vent openings and/or install in a zero-clearance compartment.

⚠ WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH OR SERIOUS INJURY

- Use and store the inverter in an indoor area away from direct sunlight, heat, moisture or conductive contaminants.
- During use, allow a minimum of three inches of space around the inverter for optimal ventilation.
- When working with electrical equipment or lead acid batteries, have someone nearby in case of an emergency.
- Study and follow all the battery manufacturer's specific precautions when installing, using and servicing the battery connected to the inverter.
- Wear eye protection and gloves.
- Avoid touching your eyes while using this unit.
- Keep fresh water and soap on hand in the event battery acid comes in contact with eyes. If this occurs, cleanse right away with soap and water for a minimum of 15 minutes and seek medical attention.

- Use precautions by not smoking or having an open spark or fire near battery installations. Batteries contain flammable materials.
- Keep unit away from moist or damp areas.
- Avoid dropping any metal tool or object on the battery. Doing so could create a spark or short circuit which goes through the battery or another electrical tool that may create an explosion.

⚠ WARNING: Shock Hazard. Keep away from children!

Avoid moisture. Never expose unit to snow, water etc. Unit provides 115 VAC, treat the output socket the same as regular wall AC sockets at home.

⚠ WARNING: Explosion hazard!

DO NOT use the inverter in the vicinity of flammable fumes or gases (such as propane tanks or large engines). AVOID covering the ventilation openings. Always operate unit in an open area.

⚠ WARNING: Medical equipment!

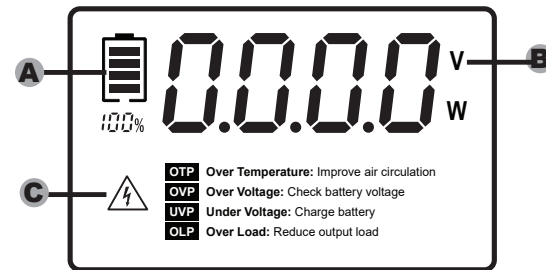
This product is NOT tested, designed nor intended to be used with life support systems or any other medical device.

DURACELL® 1000/2000/3000 Watt High Power Inverters User Guide

LCD Screen (1000 / 2000 / 3000 Watt Inverters)

Your inverter features an easy-to-read LCD screen which indicates the charge level of your source battery, power draw of your connected items, and a troubleshooting guide (should a fault occur). More information on inverter faults can be found in the Troubleshooting Guide in this manual. Below is an explanation of the information displayed on your LCD screen.

- Battery Charge Level:** Shows the percentage of available charge from your source battery.
- Output/Wattage:** Use the digital display select switch to show AC output power in Watts or battery voltage in Volts.
- Fault Warnings:** If an error occurs during usage, this area will display the type of fault and recommended actions to correct it.



Please refer to the Troubleshooting Guide in this manual for specifics on faults.

Compatible Household Items (1000 / 2000 / 3000 Watt Inverters)

Your inverter is able to operate several devices at once, up to its maximum combined load. The 1000 Watt inverter can power a combined load of up to 1000 Watts of continuous power; the 2000 Watt inverter can power a combined load of up to 2000 Watts of continuous power; the 3000 Watt can power a combined load of up to 3000 Watts of continuous power. If the total power draw of the connected devices, tools and/or appliances exceeds this maximum, the inverter will automatically shut down to avoid dangerous overload. The chart below shows an approximation of typical wattages for popular electrical items. Please consult the manual(s) of your device(s) to determine the exact wattage of your particular model.

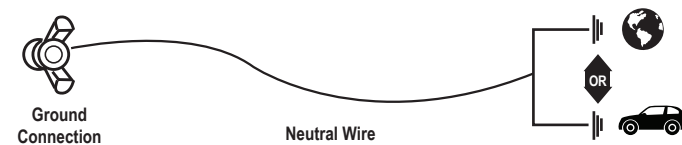
| Item | Wattage |
|--|------------|
| Smartphone/Tablet | 20 Watts |
| Video Game | 20 Watts |
| LED Work Light | 40 Watts |
| Laptop Computer | 90 Watts |
| Small TV | <150 Watts |
| Household Fan | 200 Watts |
| Large TV | >150 Watts |
| Blender | 500 Watts |
| Coffee Maker | 600 Watts |
| 1000 / 2000 / 3000 Watt inverters | |
| Power Drill | 800 Watts |
| Sump Pump (1/2 HP) | 1000 Watts |
| Disc Sander | 1200 Watts |
| Vacuum Cleaner | 1400 Watts |
| Hair Dryer | 1800 Watts |
| Circular Saw | 1600 Watts |
| Microwave Oven | 2000 Watts |
| Plunge Router | 2500 Watts |
| Large Household Appliances | 3000 Watts |
| 1000 / 2000 / 3000 Watt inverters 2000 / 3000 Watt inverters 3000 Watt inverters | |

Grounding (2000 Watt / 3000 Watt Inverters)

This provides a safe path for electrical energy from your battery to return to the source (or earth), protecting your devices/appliances, vehicle and person from accidental harm. The ground connection can be connected to earth or chassis ground depending on the installation.

- Land: Connect to earth ground
- Vehicle: Connect to vehicle chassis of the vehicle. If power equipment is used outside the vehicle an earth-stake should be used.

- Connecting the ground:** Locate the chassis ground connection (see Product Features) on the back panel of your inverter. Connect a neutral wire to the wing nut, and the other end of the neutral wire to either your vehicle chassis or earth ground (stake).



Permanent Installation (2000 Watt / 3000 Watt Inverters)

Below is detailed information on installing the 2000 Watt and 3000 Watt inverters for recurring use, such as in a work vehicle, RV, trailer or other location requiring a permanent installation. Please read this section carefully in order to ensure a safe and convenient installation.

- IMPORTANT:** Consult an electrician. Installations must meet local and national wiring codes.
- IMPORTANT:** Failure to follow these safety guidelines may cause personal injury and/or damage to the inverter. It may also void your product warranty.
- IMPORTANT:** All connections must be clean and tight for optimal performance. Loose connections will result in higher resistance loss of power and increased heating. Do not cover or obstruct ventilation openings. Loose connectors result in excessive voltage drop and may cause over heated wires and melted insulation, which can lead to electrical fires. Reverse polarity connections (positive to negative) will blow internal fuses in the inverter and may permanently damage the inverter.

DURACELL® 1000/2000/3000 Watt High Power Inverters User Guide

Power Cable Selection (2000 Watt / 3000 Watt Inverters)

If you choose to use a power cable other than the included 6AWG power cables, use the thickest gauge and shortest length allowed by your configuration and budget. As a rule of thumb no more than 2% loss should be allowed. The chart below lists minimum specifications; please consult a wire gauge chart for longer installations.

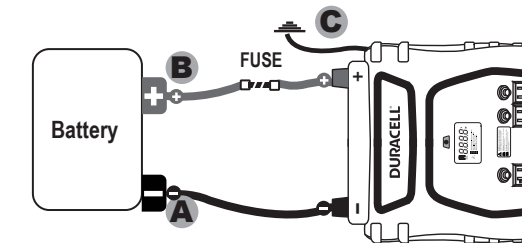
| | 2000W (100A) | | | | | | |
|--|--------------|-----|-----|-----|------|------|-----|
| Wire Gauge (AWG) | 8 | 6 | 4 | 2 | 1/0 | 2/0 | 4/0 |
| Maximum Cable Length (2% voltage drop) | N/A | 2.9 | 4.6 | 7.2 | 11.5 | 14.5 | 23 |

| | 3000W (250A) | | | | | | |
|--|--------------|-----|-----|-----|-----|-----|-----|
| Wire Gauge (AWG) | 8 | 6 | 4 | 2 | 1/0 | 2/0 | 4/0 |
| Maximum Cable Length (2% voltage drop) | N/A | N/A | 1.8 | 2.8 | 4.6 | 5.8 | 9.2 |

Permanent Connection (2000 Watt / 3000 Watt Inverters)

See diagram below. Install a UL-listed fuse in-line with the red input cable, as close to the battery as possible. Ensure tight connections.

- Connect the **negative (black)** terminal of inverter to the **negative battery post**.
- Connect the **positive (red)** terminal of inverter to the **positive battery post**.
- Connect the **ground terminal** according to the GROUNDING section above.



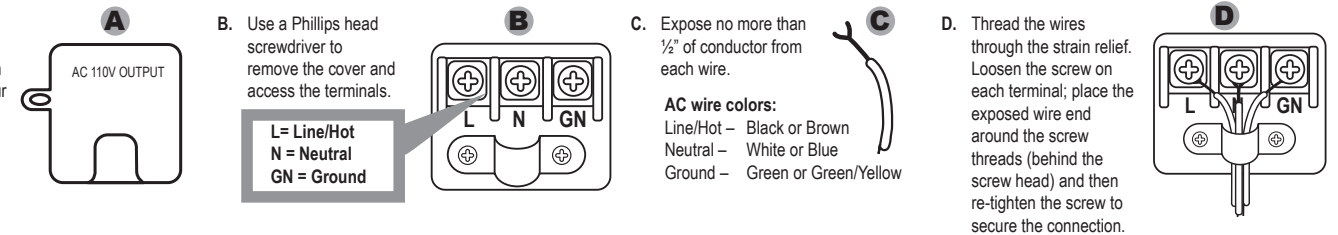
Fuse size
2000 Watt Inverter: ANL-200
3000 Watt Inverter: ANL-300

Direct-Connect AC Terminal (3000 Watt Inverter)

Your 3000 Watt inverter can also be wired directly to any AC outlet, device or appliance inside your TV, trailer or work vehicle to provide battery power on an ongoing/permanent basis. This is ideal for items that you wish to access power directly from your source battery without having to plug the intended outlet/appliance into the inverter's AC outlets every time. The inverter allows one direct-wired connection via this AC terminal.

IMPORTANT: AC extension wire and socket are not included with this inverter. Each wire should be no thicker than 10AWG.

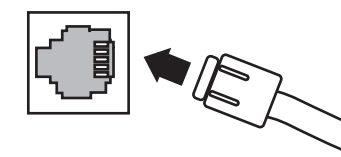
- Locate the 110V AC output terminal (see Product Features) on the front panel of your inverter.
- Use a Phillips head screwdriver to remove the cover and access the terminals.
- Expose no more than 1/2" of conductor from each wire.
- Thread the wires through the strain relief. Loosen the screw on each terminal; place the exposed wire end around the screw threads (behind the screw head) and then re-tighten the screw to secure the connection.



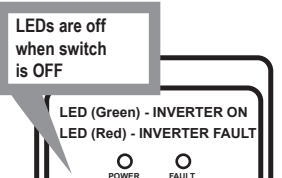
Remote On/Off Switch (2000 Watt / 3000 Watt Inverters)

The remote On/Off switch is included with the 3000 Watt inverter and is also an option (sold separately) for the 2000 Watt inverter. This switch enables you to conveniently activate/deactivate the inverter without having to be right next to the unit itself. The remote switch features an 8-foot cord, enabling you to place this switch within easy reach.

- Connecting the remote switch:** Plug the modular cable into the connector on the back side of the inverter located below the power input terminals.



- Using the remote switch:** In order to use the remote, the inverter On/Off switch must initially be in the OFF position (all LED lights on the inverter are dark). The inverter can then be turned ON or OFF with the remote switch.



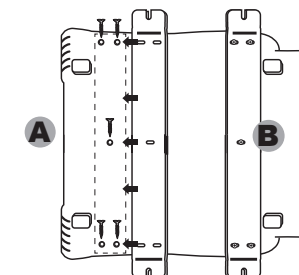
Mounting Brackets (2000 Watt / 3000 Watt Inverters)

You may mount your inverter for permanent installation using the included mounting brackets. These brackets allow you to conveniently attach your inverter to a wall, under a cabinet, inside a closet or other location inside your RV, trailer or work vehicle.

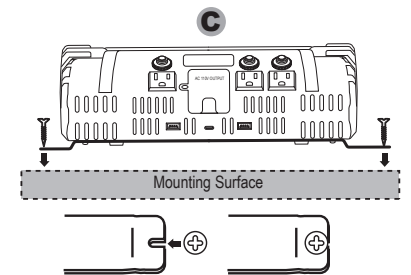
- Line up the mounting brackets:** Turn the inverter over and locate the **mounting holes** on the bottom panel. Ensure that the mounting brackets are in the proper position as shown below:



Align the mounting slots on the bracket with the mounting holes on the inverter.



- Attach the brackets to the inverter:** Use the included screws to securely fasten the brackets to the bottom panel.
- Mount the inverter:** Use your own screws to securely fasten the inverter to the mounting surface (wall, counter, cabinet, etc.). Fit the screws into the slots at each end of the mounting brackets before tightening.



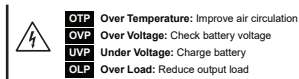
Troubleshooting Guide (1000 / 2000 / 3000 Watt Inverters)

Your inverter features several built-in protection features to ensure safe and efficient operation. Below is a guide which shows the typical faults that occur during normal operation and how to correct them and resume using your inverter. If a fault occurs, you will be alerted by an audible alarm (Constant Beep for 30 seconds then silence for 5 minutes; this will repeat until the fault is resolved). The power button LED will also turn red to alert you as well. Please refer to the table below to safely correct any problems and allow your inverter to reset and resume operation. If you have additional questions, please contact Customer Service at (800) 300-1857.

| Fault Type | Power Button Color | Inverter shutdown | What it means | What to do | Reset your inverter |
|--------------------------|--------------------|-----------------------|---|--|---|
| Low voltage | Red | Yes (stops operation) | Your source battery is running low/ approaching full discharge | Recharge your battery, or connect the inverter to a new, fully charged battery | Automatic (Once input voltage reaches 12V) |
| Over voltage | Red | Yes (stops operation) | The voltage of your source battery is too high (exceeds 15.5 Volts) | Connect to a 12 Volt battery | Automatic (Once input voltage is 15V or less) |
| Over load/ short circuit | Red | Yes (stops operation) | The power draw of your devices exceeds the maximum output of the inverter | Disconnect your devices and ensure that your combined power draw is less than 1000W, 2000W, or 3000W (varies by inverter) | Manual reset: Press power button and hold for 2 seconds to turn off, then press and hold power button again for 2 seconds to turn on. For 3000W model, unplug your device's power cord to the affected plug and reset circuit breaker (see AC Outlet Reset Button note below). |
| Over temperature | Red | Yes (stops operation) | Inverter has overheated | Disconnect any devices and allow the inverter to cool down for 10 minutes. Ensure that nothing is blocking the cooling fan and that air is circulating freely around the inverter. | Automatic (Once inverter cools down) |

LCD Screen (1000 /2000 / 3000 Watt Inverters):

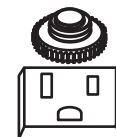
Fault Warnings: If an error occurs during usage, the screen will display the type of fault and recommended actions to correct it.



Please refer to the Troubleshooting Guide above for specifics on faults.

AC Outlet Reset Button (3000 Watt inverters):

The 3000 Watt inverter features AC outlets equipped with a manual reset button. This button which acts as a breaker for the outlet in the event of an overload or if the connected device is short-circuited. If these faults occur, the button will pop out and the outlet will shut off. Unplug the connected item and press the button to reset.



Rather than shutting the entire inverter down, the other outlets are not affected and will still operate as long as they do not also experience a fault.

Support and Warranty

Contacting Customer Support

If you experience any problems or have any questions regarding your DURACELL® product, free technical support is available. Call from a phone where you have access to your mobile device.

Be prepared to provide the following information:

- Name, address and telephone number
- Name of the DURACELL® product
- Make and model of your device
- Symptoms of the problem(s) and what led to them

Technical Support is available by telephone:
 U.S. and Canada (800) 300-1857
 Outside of the US/Canada: (805) 437-7765
 Written inquiries should be directed to: Battery-Biz Inc.;
 DURACELL® Product Inquiry
 1380 Flynn Road, Camarillo, CA 93012, USA

Recycling Information

Battery-Biz is committed to environmental responsibility and recommends that electronic devices be disposed of properly. Please contact your local city offices for information on recycling and disposal programs for e-waste.

For instructions on how to recycle this product visit <http://www.call2recycle.org>.

Three Year Warranty Limited Warranty

The DURACELL® product carries a limited warranty against defects in material and workmanship under normal use and service for three years from the original date of purchase. The manufacturer or distributor, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase as it will be required for any warranty service. In order to keep the warranty in effect, the product must have been handled and used as described in the instructions accompanying this warranty. This warranty does not cover any damage due to accident, misuse, abuse or negligence.

Disclaimer Of Warranty

The limited warranty described herein is your sole remedy. To the extent permitted by law, the manufacturer and distributor disclaim all other implied or express warranties including all warranties of merchantability and/or fitness for any particular purpose.

Limitation Of Liability

Except to the extent of repairing or replacing this product as expressly stated in the limited warranty described herein, the manufacturer and distributor shall not be liable for any damages, whether direct, indirect, incidental, special, consequential, exemplary, or otherwise, including lost revenues, lost profits, loss of use of software, loss or recovery of data, rental of replacement equipment, downtime, damage to property, and third-party claims, arising out of any theory of recovery, including statutory, contract or tort. Notwithstanding the term of any limited or implied warranty, or in the event that any limited warranty fails of its essential purpose, in no event will the manufacturer's and distributors entire liability exceed the purchase price of this product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages so the above limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights. You may have other rights which vary from state to state and province to province.

Product Registration

For complete warranty coverage, please register your DURACELL® product within fourteen days of purchase.

Visit DuracellPower.com/Register

or scan the QR code below to register.



Product Specifications (1000 / 2000 / 3000 Watt Inverters)

| Output Specifications | 1000W | 2000W | 3000W |
|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| Continuous power (Watts) | 1000 | 2000 | 3000 |
| Surgepower (Watts) | 2000 | 4000 | 6000 |
| Output wave form | Modified sine wave | Modified sine wave | Modified sine wave |
| No-load power draw | <0.45 A DC | <0.45A DC | <0.6A DC |
| Nominal output voltage | 115V AC | 115V AC | 115V AC |
| USB | 5V DC, 3.1A Shared | 5V DC, 3.1A Shared | 5V DC, 3.1A Shared |
| Protection And Alarms | 1000W | 2000W | 3000W |
| Low battery alarm | 10.5V DC (beeping sound) | 10.5V DC (beeping sound) | 10.5V DC (beeping sound) |
| Low battery shutdown | 9.5V DC | 9.5V DC | 9.5V DC |
| High battery voltage shutdown | 15.5V DC | 15.5V DC | 15.5V DC |
| Fuse (external, user replaceable) | 40A x 3 (max) | 40A x 6 (max) | N/A (no replaceable fuses) |
| Over-temperature protection | Yes | Yes | Yes |
| Cooling fan | Yes, temperature-controlled | Yes, temperature-controlled | Yes, temperature-controlled |
| Overload and short circuit protection | Yes | Yes | Yes |
| Dimensions And Weight | 1000W | 2000W | 3000W |
| Dimensions W x H x D (inches / cm) | 5.1 x 8.9 x 2.75 / 13.0 x 22.7 x 7.0 | 7.8 x 11.7 x 3.8 / 19.8 x 29.7 x 9.7 | 11.3 x 12.1 x 3.8 / 28.8 x 30.9 x 9.7 |
| Weight (lbs / kg, inverter only) | 2.12 / 0.96 | 4.73 / 2.15 | 7.2 / 3.3 |

Additional Language Manuals

Manuales en idiomas adicionales • Manuels dans d'autres langues

Spanish and French language user manuals are available at duracellpower.com
 Los manuales de usuario en español están disponibles en duracellpower.com
 Les manuels d'utilisation en français sont disponibles sur duracellpower.com