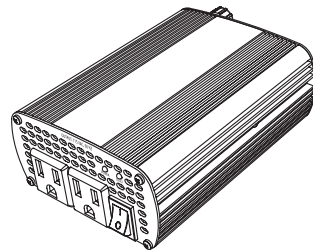


DURACELL[®]

INVERTER 300

t 1 408 987 6359

www.xantrex.com/support



Owner's Guide

About Xantrex

Xantrex Technology Inc. is a world-leading supplier of advanced power electronics and controls with products ranging from small mobile units to utility-scale systems for wind, solar, batteries, fuel cells, microturbines, and backup power applications in both grid-connected and stand-alone systems. Xantrex products include inverters, battery chargers, programmable power supplies, and variable speed drives that convert, supply, control, clean, and distribute electrical power.

Trademarks

DURACELL® is a registered trademark of The Gillette Company, used under license. All rights reserved. XANTREX is a registered trademark of Xantrex International. Other trademarks, registered trademarks, and product names are the property of their respective owners and are used herein for identification purposes only.

Notice of Copyright

Duracell® Inverter 300 Owner's Guide © March 2008 Duracell. All rights reserved.

Disclaimer

UNLESS SPECIFICALLY AGREED TO IN WRITING, XANTREX TECHNOLOGY INC. ("XANTREX")

(a) MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER DOCUMENTATION.

(b) ASSUMES NO RESPONSIBILITY OR LIABILITY FOR LOSSES, DAMAGES, COSTS OR EXPENSES, WHETHER SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL, WHICH MIGHT ARISE OUT OF THE USE OF SUCH INFORMATION. THE USE OF ANY SUCH INFORMATION WILL BE ENTIRELY AT THE USER'S RISK.

(c) REMINDS YOU THAT IF THIS MANUAL IS IN ANY LANGUAGE OTHER THAN ENGLISH, ALTHOUGH STEPS HAVE BEEN TAKEN TO MAINTAIN THE ACCURACY OF THE TRANSLATION, THE ACCURACY CANNOT BE GUARANTEED. APPROVED XANTREX CONTENT IS CONTAINED WITH THE ENGLISH LANGUAGE VERSION WHICH IS POSTED AT www.xantrex.com.

Date and Revision

March 2008 Revision A

Part Number

975-0417-01-01

Product Number

813-0307

Contact Information

Telephone: 1 408 987 6359

Email: customerservice@xantrex.com

Contents

1. Introduction	3
2. Important Safety Information	5
Warnings and Cautions	5
Additional Safety Guidelines	8
3. Safety Features	9
4. Installation Guidelines	10
Selecting a suitable location	10
5. Using the Inverter	11
Using the DC cable with cigarette lighter plug ..	12
Using the DC cable clips	14
6. Indicators and Controls	15
7. Inverter Operation	17
Battery Operating Time	19
Interference with Electronic Equipment	20
8. Troubleshooting	22
Recycling	26
9. Specifications	30
10. Warranty and Return	32

1 Introduction

Thank you for purchasing the Duracell® Inverter 300. The Inverter 300 is part of a family of advanced, high-performance power inverters from Xantrex, the leader in the field of high-frequency inverter design.

Connected to the 12 volt outlet in your vehicle or directly to your battery for loads over 150 watts, the Inverter 300 efficiently and reliably powers a wide variety of household AC products, such as TVs and VCRs, laptop computers, camcorder and cell phone chargers, compact fluorescent lights, and soldering irons.

The Inverter 300 uses reliable solid state power electronics for years of safe, trouble-free operation and includes automatic safety monitoring circuitry to protect it from inadvertent overload conditions.

Read this guide before connecting or using the Inverter 300, and save it for future reference. The main topics in the guide are:

- Safety information ([page 5](#))
- Inverter 300 features ([page 9](#))
- Instructions for connecting the inverter ([page 10](#))
- Operating guidelines ([page 17](#))
- Troubleshooting information ([page 22](#))
- Specifications ([page 30](#))
- Warranty and service information ([page 32](#))

2 Important Safety Information

Misusing or incorrectly connecting the Inverter 300 may damage the equipment or create hazardous conditions for users. Read the following safety instructions and pay special attention to all Caution and Warning statements in the guide.

Warnings identify conditions that may result in personal injury or loss of life.

Cautions identify conditions or practices that may damage the unit or other equipment.

Warnings and Cautions



WARNING: Shock hazard

Keep children away from the Inverter 300. The inverter generates the same potentially lethal AC power as a normal household wall outlet. Treat the outlet with respect!



WARNING: Heat hazard

The Inverter 300 housing may become uncomfortably warm, reaching 140° F (60° C) under extended high power operation. Ensure that at least 2 inches (5 cm) of air surround the inverter. During operation, keep it away from materials that may be affected by high temperatures.



WARNING: Explosion hazard

Do not use the Inverter 300 in the presence of flammable fumes or gases, such as in the bilge of a gasoline powered boat, or near propane tanks. Do not use the Inverter 300 in an enclosure containing automotive-type, lead-acid batteries. These batteries, unlike sealed batteries, vent explosive hydrogen gas, which can be ignited by sparks from electrical connections.



CAUTION: Output non-sinusoidal

Some chargers for small nickel-cadmium batteries can be damaged if connected to the Inverter 300. Do not use the inverter with the following appliances:

- Small battery-operated appliances like rechargeable flashlights, some rechargeable shavers, and night lights that are plugged directly into an AC receptacle to recharge.
- Battery chargers used in hand power tools. These chargers display a warning label stating that dangerous voltages are present at the charger battery terminals.



CAUTION: Equipment damage

Do not connect live AC power to the Inverter 300's AC outlets. The inverter will be damaged even if it is switched OFF.

Do not connect any AC load that has its neutral conductor connected to ground to the Inverter 300.

Additional Safety Guidelines

- Do not insert foreign objects in the Inverter 300 outlets or other openings.
- Never connect the inverter to power utility AC distribution wiring.
- Do not use the Inverter 300 in temperatures over 100° F (40° C).
- Do not expose the Inverter 300 to water, rain, snow, or spray.

Failure to follow these safety guidelines may cause personal injury and/or damage to the Inverter 300. It may also void your product warranty.

3 Safety Features

These advanced safety features are built into the Inverter 300:

- Electronic overload protection with automatic shutdown
- Built-in internal backup DC fuse
- Low battery voltage warning followed by automatic shutdown
- High-input voltage protection with automatic shutdown
- Overheat protection with automatic shutdown
- Output short circuit protection

4 Installation Guidelines

Selecting a suitable location

For safe and optimum performance, install the Inverter 300 in a location that is:

- | | |
|------------------------|---|
| Dry | Do not expose to water drip or spray. |
| Cool | Operate only in ambient temperatures between 0°C (32°F) and 40°C (104°F). Keep away from furnace heating vents or other heat producing equipment. |
| Well ventilated | Allow at least 2" (5 cm) clearance above and on all sides of the unit for proper cooling. |
| Safe | Do not install the power inverter in a compartment with batteries or flammable liquids, such as gasoline, or explosive vapors. |
| Clean and free of dirt | This is especially important if the power inverter is used in a work environment. |

5 Using the Inverter

The Inverter 300 is capable of continuously powering most 120 V AC products that use 240 W or less. Its AC output waveform, called “modified-sine wave,” is designed to function similarly to the sine wave shape of utility power.

The power, or “wattage,” rating of AC products is the average power they use. When most AC products are first switched on, they initially consume more power than their power rating. TVs, monitors, and electric motors are examples of products that have high “surge” requirements at start up. Although the Inverter 300 can supply momentary surge power as high 500 W, occasionally some products rated less than 240 W unit may exceed its surge capabilities and trigger its safety overload shutdown feature. If this problem occurs when attempting to operate several AC products at the same time, first try switching on the inverter with all AC products switched off, then one by one switch each on, starting with the high surge product first.

Using the DC cable with cigarette lighter plug

Due to the limitations of 12 V outlets in vehicles or boats, the Inverter 300 should only be used to supply AC power to products that require 150 W (about 1.3 A) or less. If your application requires more than 150 W (but less than 240 W continuous) or has a high start-up surge, see “Using the DC cable clips.”

1. Attach the ring type connector marked with red to the positive (+) DC terminal on the power inverter, and attach the ring connector marked with black to the negative (-) DC terminal.



CAUTION

A reverse polarity connection (positive to negative) may damage the power inverter. Damage caused by a reverse polarity connection is not covered under warranty.

2. Tighten the nut on each DC terminal by hand until it is snug. Do not over-tighten.

3. Insert the plug of this cable into the 12 V outlet and switch the unit ON.
4. When the power inverter is not in use, unplug it from the 12 V outlet to prevent slight discharge of the battery.

Using the DC cable clips

By directly connecting the power inverter to a 12 V battery using the DC cable clips, you can operate products with power requirements up to 240 W continuous for 300 W.

1. Follow steps 1 and 2 above (Using the DC Cable with cigarette lighter plug) to attach the ring type connectors.
2. Attach the negative (black) clip to the negative (-) battery terminal.
3. Attach the positive (red) clip to the positive (+) battery terminal. Make sure both clips are securely connected to the battery terminals, as a loose connection will cause the voltage to drop and may cause the cables to overheat, resulting in equipment damage or fire.
4. Switch the power inverter “ON.”
5. When the power inverter is not in use, disconnect the DC cable clips from the battery to prevent slight discharge of battery.

6 Indicators and Controls

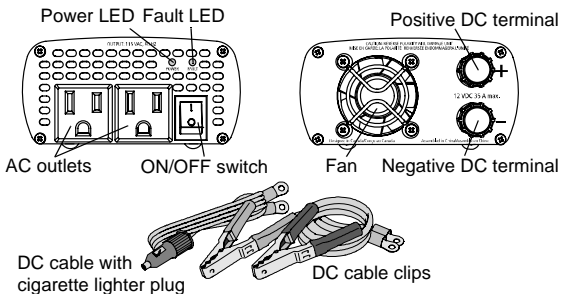


Figure 1

- Two AC outlets are provided on one end of the Inverter 300. Any combination of 120 V AC products with a total continuous power consumption of 240 W or less may be plugged in.
- The ON/OFF switch enables output AC power at the AC outlet(s) when switched ON.
- The green POWER light indicates AC power is present at the AC outlet(s) and the Inverter 300 is operating normally.
- The red FAULT light indicates inverter shutdown caused by low or high voltage, overload or excessive heat.

7 Inverter Operation

1. When properly connected to a 12 V outlet or battery, turning the inverter switch ON, will illuminate the green POWER light, and deliver AC power to the outlet(s).
2. Plug the AC product(s) you wish to operate into the AC outlet(s) and switch them on, one at a time.
3. As the battery is used, voltage begins to fall. When the Inverter 300 senses that the voltage at its DC input has dropped to 11 V, an audible alarm sounds. This allows time for computers or other sensitive devices to be shut down.
4. If the audible alarm is ignored, the Inverter 300 will automatically shut down when the battery voltage drops to 10.5 V. This prevents the battery from being damaged. After auto shutdown, the red FAULT light illuminates.

Important: Vehicle batteries are designed to provide brief periods of very high current needed for engine starting. They are not intended for constant deep discharge. Regularly operating the Inverter 300 from a vehicle battery until the low voltage alarm sounds will shorten the life of the battery. Consider connecting the power inverter to a separate deep-cycle battery if you will be frequently running electrical products for extended periods of time.

5. If an AC product rated higher than 240 W (or which draws excessive surge power) is connected, the Inverter 300 will shut down. The red FAULT light will turn on.
6. If the Inverter 300 exceeds a safe operating temperature, due to insufficient ventilation or a high temperature environment, it will automatically shut down. The red FAULT light will turn on and the audio warning will sound.
7. Should a defective battery charging system cause the battery voltage to rise to dangerously high levels, the Inverter 300 will automatically shut down. The red FAULT light will turn on.



CAUTION

Although the Inverter 300 incorporates protection against over-voltage, it may still be damaged if the input voltage exceeds 16 V.

8. The cooling fan is designed to operate only when output power is greater than approximately 100 W. When the inverter is turned on, the fan may operate momentarily.
9. In the event of an overload, low battery voltage or overheating, the Inverter 300 will automatically shut down.

Battery Operating Time

Operating time will vary depending on the charge level of the battery, its capacity and the power level drawn by the particular AC load. With a typical vehicle battery and a 100 W load (such as a small TV), an operating time of 2 to 3 hours or more can be expected.

When using a vehicle battery as a power source, it is strongly recommended to start the vehicle every hour or two to recharge the battery before its capacity drops too low. The Inverter 300 can operate while the engine is running, but the normal voltage drop that occurs during starting of the engine may trigger the inverter's low voltage shutdown feature.

Because the power inverter draws less than 0.2 A with the ON/OFF switch in the ON position and with no AC products connected, it has minimal impact on battery operating times.

Interference with Electronic Equipment

Generally, most AC products operate with the Inverter 300 just as they would with household AC power. Below is information concerning two possible exceptions.

Buzzing sound in audio systems and radios

Some inexpensive stereo systems, "boom boxes," and AM-FM radios have inadequate internal power supply filtering and "buzz" slightly when powered by the Inverter 300. Generally, the only solution is an audio product with a higher quality filter.

Television interference

The Inverter 300 is shielded to minimize its interference with TV signals. However, with weak TV signals interference may be visible in the form of lines scrolling across the screen. The following should minimize or eliminate the problem:

- Increase the distance between the Inverter 300 and the TV, antenna and cables.
- Adjust the orientation of the Inverter 300, television, antenna and cables.
- Maximize TV signal strength by using a better antenna and use shielded antenna cable where possible.

8 Troubleshooting

PROBLEM: AC product will not operate, no inverter lights are ON.

Possible cause	Remedy
Battery is defective.	Check battery and replace if required.
Inverter has been connected with reverse DC input polarity.	Check connection to battery. Probable inverter damage has occurred. Have unit repaired (not covered by warranty).
Loose cable connections.	Check cables and connections. Tighten as required.

PROBLEM: Inverter will run some small loads, but not larger ones.

Possible cause	Remedy
Voltage drop across DC cables.	Shorten cables or use heavier cables.

PROBLEM: Measured inverter output is too low.

Possible cause	Remedy
Standard “average-reading” AC voltmeter used to measure output voltage, resulting in an apparent reading 5 to 15 V too low.	Inverter’s “modified sine wave” output requires “true RMS” voltmeter for accurate measurements.
Battery voltage is too low.	Recharge battery.

PROBLEM: Alarm is sounding.

Possible cause	Remedy
Low voltage shutdown or thermal shutdown has occurred.	Shorten cables or use heavier cables. Recharge battery. Allow unit to cool. Improve air circulation around unit. Locate unit to a cooler environment. Reduce load if continuous operation is required.

PROBLEM: Battery run time is less than expected.

Possible cause	Remedy
AC product power consumption is higher than rated.	Use a larger battery to make up for increased power requirement.
Battery is old or defective.	Replace battery.
Battery is not being properly charged.	Some chargers are not able to fully recharge a battery. Make sure you use a powerful charger.
Power dissipation in DC cables.	Use shorter/heavier DC cables.

PROBLEM: AC product will not operate, red FAULT light ON.

Possible cause	Remedy
AC product(s) connected are rated at more than the inverter's continuous power rating; overload shutdown has occurred.	Use a product with a power rating less than the inverter's continuous power rating.
AC product is rated less than the inverter's continuous power rating; high starting surge has caused overload shutdown.	Product exceeds inverter's surge capability. Use a product with starting surge power within the inverter's capability.
Battery is discharged (alarm is sounding). The inverter has overheated due to poor ventilation and has shut down.	Recharge battery. Switch inverter OFF and allow to cool for 15 minutes. Clear blocked fan or remove objects covering unit. Move the inverter to a cooler place. Reduce load if continuous operation is required. Restart.

Recycling

If it's rechargeable, it's recyclable!

Xantrex recognizes its responsibility as a global citizen and is continually striving to reduce the environmental impact of the work we do and the products we create. We have taken a step forward to limit our impact on the natural environment by initiating a battery recycling program. Xantrex is a licensee of the Rechargeable Battery Recycling Corporation (“RBRC”), a non-profit public service organization dedicated to recycling used rechargeable batteries. Through RBRC’s national program and the availability of recycling depots for Pb batteries, Xantrex customers can recycle rechargeable batteries in a convenient and environmentally friendly way.

If one of your Xantrex battery-integrated products has reached the end of its useful life, we urge you to dispose of the product correctly and safely. Xantrex recommends taking the following steps to recycle your product depending on battery chemistry and size.

Ni-MH, Li-ion or small Pb Batteries (up to 2 lbs. or 1 kg)

If you are recycling a product that contains a Ni-MH, Li-ion or small Pb battery (up to 2 lbs. or 1 kg) then you can simply drop it off at the battery drop-box located at any one of the following major retailers.

In Canada: Battery Experts, Battery Plus, Bell World, FIDO, Future Shop, The Home Depot, Home Hardware, London Drugs, Makita Factory Service Centers, Personal Edge, Revy, Sears, The Sony Store, The Source by Circuit City, TELUS Mobility and Zellers

In the USA: Alltel, Batteries Plus, Black & Decker, Cingular Wireless, Circuit City, The Home Depot, Lowe's, Milwaukee Electric Tool, Office Depot, Orchard Supply, Porter Cable Service Centers, RadioShack, Remington Product Company, Sears, Staples, Target, US Cellular and Verizon Wireless

If you are not sure of the drop-box nearest you, simply call 1-877-2-RECYCLE to find the retail collection nearest you.

Pb Batteries (larger than 2 lbs. or 1 kg)

If you need to recycle a Pb battery that is larger than 2lbs. (1kg) then you may take one of the following three steps to recycle your battery:

- dispose of your battery product 'as is' at a battery disposal location or waste disposal location nearest you.

- visit www.xantrex.com and search for "Recycling" to find out shipping instructions and the current ship-to address of a Xantrex battery recovery depot.
 - dispose of the battery inside your product, by first removing it (simple disassembly may be required) and then taking it to a Sears Automotive Facility in your area where it can be dropped off for proper recycling.
- * If you are not sure of a Sears Automotive Facility nearest you simply go to www.Sears.com and select store locator.

9 Specifications

NOTE: Specifications are subject to change without notice.

AC output voltage (nominal)	120 VAC
DC input voltage range	10.5–15.5 VDC
DC maximum input current	35 A
Continuous AC output power	240 W
5 minutes AC output power	300 W
Maximum AC output surge power	500 W
AC output frequency	60 Hz
AC output waveform	Modified sine wave
Battery drain with no AC load (at 12 V input)	0.20 A
Efficiency (maximum)	90%
Ambient operating temperature range	0 °C–40 °C (32 °F–104 °F)

Low battery alarm trigger point (nominal)	11.0 V
Low battery shut down point (nominal)	10.5 V
High battery shut down point (nominal)	15.5 V
Dimensions (L × W × H)	6 × 4 × 2" (15.2 × 10.6 × 5 cm)
Weight	1.6 lb (0.74 kg)

10 Warranty and Return

Warranty

What does this warranty cover and how long does it last? This Limited Warranty is provided by Xantrex Technology Inc. ("Xantrex") and covers defects in workmanship and materials in your Duracell® Inverter 300. This Warranty Period lasts for 3 months from the date of purchase at the point of sale to you, the original end user customer, unless otherwise agreed in writing. You will be required to demonstrate proof of purchase to make warranty claims.

This Limited Warranty is transferable to subsequent owners but only for the unexpired portion of the Warranty Period. Subsequent owners also require original proof of purchase as described in "What proof of purchase is required?"

What will Xantrex do? During the Warranty Period Xantrex will, at its option, repair the product (if economically feasible) or replace the defective product free of charge, provided that you notify Xantrex of the product defect within the Warranty Period, and provided that Xantrex through inspection establishes the existence of such a defect and that it is covered by this Limited Warranty.

Xantrex will, at its option, use new and/or reconditioned parts in performing warranty repair and building replacement products. Xantrex reserves the right to use parts or products of original or improved design in the repair or replacement. If Xantrex repairs or replaces a product, its warranty continues for the remaining portion of the original Warranty Period or 90 days from the date of the return shipment to the customer, whichever is greater. All replaced products and all parts removed from repaired products become the property of Xantrex.

Xantrex covers both parts and labor necessary to repair the product, and return shipment to the customer via a Xantrex-selected non-expedited surface freight within the contiguous United States and Canada. Alaska, Hawaii and outside of the United States and Canada are excluded. Contact Xantrex Customer Service for details on freight policy for return shipments from excluded areas.

How do you get service? If your product requires troubleshooting or warranty service, contact your merchant. If you are unable to contact your merchant, or the merchant is unable to provide service, contact Xantrex directly at:

Telephone: 1 408 987 6359

Email: customerservice@xantrex.com

Direct returns may be performed according to the Xantrex Return Material Authorization Policy described in your product manual. For some products, Xantrex maintains a network of regional Authorized Service Centers. Call Xantrex or check our website to see if your product can be repaired at one of these facilities.

What proof of purchase is required? In any warranty claim, dated proof of purchase must accompany the product and the product must not have been disassembled or modified without prior written authorization by Xantrex.

Proof of purchase may be in any one of the following forms:

- The dated purchase receipt from the original purchase of the product at point of sale to the end user; or
- The dated dealer invoice or purchase receipt showing original equipment manufacturer (OEM) status; or
- The dated invoice or purchase receipt showing the product exchanged under warranty.

What does this warranty not cover? Claims are limited to repair and replacement, or if in Xantrex's discretion that is not possible, reimbursement up to the purchase price paid

for the product. Xantrex will be liable to you only for direct damages suffered by you and only up to a maximum amount equal to the purchase price of the product.

This Limited Warranty does not warrant uninterrupted or error-free operation of the product or cover normal wear and tear of the product or costs related to the removal, installation, or troubleshooting of the customer's electrical systems. This warranty does not apply to and Xantrex will not be responsible for any defect in or damage to:

- a) the product if it has been misused, neglected, improperly installed, physically damaged or altered, either internally or externally, or damaged from improper use or use in an unsuitable environment;
- b) the product if it has been subjected to fire, water, generalized corrosion, biological infestations, or input voltage that creates operating conditions beyond the maximum or minimum limits listed in the Xantrex product specifications including, but not limited to, high input voltage from generators and lightning strikes;
- c) the product if repairs have been done to it other than by Xantrex or its authorized service centers (hereafter "ASCs");
- d) the product if it is used as a component part of a product expressly warranted by another manufacturer;

- e) the product if its original identification (trade-mark, serial number) markings have been defaced, altered, or removed;
- f) component parts or monitoring systems supplied by you or purchased by Xantrex at your direction for incorporation into the product;
- g) the product if it is located outside of the country where it was purchased; and
- h) any consequential losses that are attributable to the product losing power whether by product malfunction, installation error or misuse.

Disclaimer

Product

THIS LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY XANTREX IN CONNECTION WITH YOUR XANTREX PRODUCT AND IS, WHERE PERMITTED BY LAW, IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS, GUARANTEES, REPRESENTATIONS, OBLIGATIONS AND LIABILITIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE IN CONNECTION WITH THE PRODUCT, HOWEVER ARISING (WHETHER BY CONTRACT, TORT, NEGLIGENCE, PRINCIPLES OF MANUFACTURER'S LIABILITY, OPERATION OF LAW, CONDUCT, STATEMENT OR OTHERWISE), INCLUDING WITHOUT RESTRICTION ANY IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR

FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT REQUIRED UNDER APPLICABLE LAW TO APPLY TO THE PRODUCT SHALL BE LIMITED IN DURATION TO THE PERIOD STIPULATED UNDER THIS LIMITED WARRANTY.

IN NO EVENT WILL XANTREX BE LIABLE FOR: (a) ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, LOST REVENUES, FAILURE TO REALIZE EXPECTED SAVINGS, OR OTHER COMMERCIAL OR ECONOMIC LOSSES OF ANY KIND, EVEN IF XANTREX HAS BEEN ADVISED, OR HAD REASON TO KNOW, OF THE POSSIBILITY OF SUCH DAMAGE, (b) ANY LIABILITY ARISING IN TORT, WHETHER OR NOT ARISING OUT OF XANTREX'S NEGLIGENCE, AND ALL LOSSES OR DAMAGES TO ANY PROPERTY OR FOR ANY PERSONAL INJURY OR ECONOMIC LOSS OR DAMAGE CAUSED BY THE CONNECTION OF A PRODUCT TO ANY OTHER DEVICE OR SYSTEM, AND (c), ANY DAMAGE OR INJURY ARISING FROM OR AS A RESULT OF MISUSE OR ABUSE, OR THE INCORRECT INSTALLATION, INTEGRATION OR OPERATION OF THE PRODUCT.

Exclusions

If this product is a consumer product, federal law does not allow an exclusion of implied warranties. To the extent you are entitled to implied warranties under federal law, to the extent permitted by applicable law they are limited to the duration of this Limited Warranty. Some states, provinces and jurisdictions do not allow limitations or exclusions on implied warranties or on the duration of an implied warranty or on the limitation or exclusion of incidental or consequential damages, so the above limitation(s) or

exclusion(s) may not apply to you. This Limited Warranty gives you specific legal rights. You may have other rights which may vary from state to state, province to province or jurisdiction to jurisdiction.

Return Material Authorization Policy

For those products that are not being repaired in the field and are being returned to Xantrex, before returning a product directly to Xantrex you must obtain a Return Material Authorization (RMA) number and the correct factory "Ship To" address. Products must also be shipped prepaid. Product shipments will be refused and returned at your expense if they are unauthorized, returned without an RMA number clearly marked on the outside of the shipping box, if they are shipped collect, or if they are shipped to the wrong location. When you contact Xantrex to obtain service, please have your instruction manual ready for reference and be prepared to supply:

- The serial number of your product
- Information about the installation and use of the unit
- Information about the failure and/or reason for the return
- A copy of your dated proof of purchase

Record these details on [page 41](#).

Return Procedure

Package the unit safely, preferably using the original box and packing materials. Please ensure that your product is shipped fully insured in the original packaging or equivalent. This warranty will not apply where the product is damaged due to improper packaging.

Include the following:

- The RMA number supplied by Xantrex Technology Inc. clearly marked on the outside of the box.
- A return address where the unit can be shipped. Post office boxes are not acceptable.
- A contact telephone number where you can be reached during work hours.
- A brief description of the problem.

Ship the unit prepaid to the address provided by your Xantrex customer service representative.

If you are returning a product from outside of the USA or Canada In addition to the above, you **MUST** include return freight funds and are fully responsible for all documents, duties, tariffs, and deposits.

If you are returning a product to a Xantrex Authorized Service Center (ASC) A Xantrex return material authorization (RMA) number is not required. However, you must contact the ASC prior to returning the product or presenting the unit to verify any return procedures that may apply to that particular facility and that the ASC repairs this particular Xantrex product.

Out of Warranty Service

If the warranty period for your product has expired, if the unit was damaged by misuse or incorrect installation, if other conditions of the warranty have not been met, or if no dated proof of purchase is available, your unit may be serviced or replaced for a flat fee.

To return your product for out of warranty service, contact Xantrex Customer Service for a Return Material Authorization (RMA) number and follow the other steps outlined in "Return Procedure" on page [page 39](#).

Payment options such as credit card or money order will be explained by the Customer Service Representative. In cases where the minimum flat fee does not apply, as with incomplete units or units with excessive damage, an additional fee will be charged. If applicable, you will be contacted by Customer Service once your unit has been received.

Information About Your System

As soon as you open your Duracell® Inverter 300 package, record the following information and be sure to keep your proof of purchase.

Serial Number _____

Product Number 813-0307

Purchased From _____

Purchase Date _____

If you need to contact Customer Service, please record the following details before calling. This information will help our representatives give you better service.

