



Mobile Digital Power Inverter

299-5299-0



Owner's Manual

TOLL-FREE HELPLINE: 1-877-466-8191



Intertek

3151284

Cert. to CSA Std. C22.2 No. 107.1

Important Safety Introductions

IMPORTANT: Read and keep this Owner's Manual for future reference. This chapter contains important safety and operating instructions.



WARNING: Limitations on use

The Mobile Digital Power Inverter is not intended for use in connection with life support systems of other medical equipment or devices.

1. Before installing and using the Mobile Digital Power Inverter, read all instructions and cautionary markings on the Mobile Digital Power Inverter, the batteries, and all appropriate sections of this guide.
2. Do not expose the Mobile Digital Power Inverter to rain, snow, spray, or bilge water. To reduce risk of fire hazard, do not cover or obstruct the ventilation openings. Do not install the Mobile Digital Power Inverter in a zero-clearance compartment. Overheating may result.
3. Use only attachments recommended or sold by the manufacturer. Doing otherwise may result in a risk of fire, electric shock, or injury to persons.
4. To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that wire is not undersized. Do not operate the Mobile Digital Power Inverter with damaged or substandard wiring.
5. Do not operate the Mobile Digital Power Inverter if it has received a sharp blow, been dropped, or otherwise damaged in any way. If the Mobile Digital Power Inverter is damaged, see the Warranty section.
6. Do not disassemble the Mobile Digital Power Inverter. It contains no user-serviceable parts. See Warranty section for instructions on obtaining service. Attempting to service the Mobile Digital Power Inverter yourself may result in a risk of electrical shock or fire. Internal capacitors remain charged after all power is disconnected.
7. To reduce the risk of electrical shock, disconnect both AC and DC power from the Mobile Digital Power Inverter before attempting any maintenance or cleaning or working on any circuits connected to the Mobile Digital Power Inverter. Turning off controls will not reduce this risk.

Precautions for Working with Batteries



WARNING: Explosion hazard

1. Follow all instructions published by the battery manufacturer and the manufacturer of the equipment in which the battery is installed.
2. Make sure the area around the battery is well ventilated.
3. Never smoke or allow a spark or flame near the engine or batteries.
4. Use caution to reduce the risk of dropping a metal tool on the battery. It could spark or short circuit the battery or other electrical parts and could cause an explosion.
5. Remove all metal items, like rings, bracelets, and watches when working with lead-acid batteries. Lead-acid batteries produce a short circuit current high enough to weld metal to skin, causing a severe burn.
6. Have someone within the range of your voice or close enough to come to your aid when you work near a lead-acid battery.
7. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
8. Wear complete eye protection and clothing protection. Avoid touching your eyes while working near batteries.
9. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters your eye, immediately flood it with running cold water for at least twenty minutes and get medical attention immediately.
10. If you need to remove a battery, make sure all accessories are off so you don't cause a spark.

Precautions for Using Rechargeable Appliance



CAUTION:Equipment damage

The output of the inverter is non-sinusoidal.

Most rechargeable battery-operated equipment uses a separate charger or transformer that is plugged into an AC receptacle and produces a low voltage charging output.

Some chargers for small rechargeable batteries can be damaged if connected to the Mobile Digital Power Inverter. Do not use the following with the Mobile Digital Power Inverter:

- Small battery-operated appliances like flashlights, razors, and night lights that can be plugged directly into an AC receptacle to recharge.
- Some chargers for battery packs used in power hand tools.

These affected chargers display a warning label stating that dangerous voltages are present at the battery terminals.

If you are unsure about using your rechargeable appliance with the Mobile Digital Power Inverter, contact the equipment manufacturer to determine the rechargeable appliance's compatibility with the modified sine wave (non-sinusoidal) AC waveform.



CAUTION:Equipment damage

Do not connect live AC power to the Mobile Digital Power Inverter'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 the Mobile Digital Power Inverter.

Contents

Important Safety Instructions	I
1 Introduction	1
Quality Power	1
Ease of Use	1
Comprehensive Protection	2
2 Features	3
Materials List	3
AC Panel	3
DC Panel	4
3 Installation	5
Calculating Battery Requirements	5
Choosing an Appropriate Location	5
Calculating Cable Sizes	6
DC Panel Connections	7
DC Cable Connections	8
4 Operation	9
Turning the Inverter On and Off	9
Operating Several Loads at Once	9
Turning the Inverter Off Between Uses	10
Operating Limits	10
Power Output	10
Input Voltage	10
Inverter Loads	10
High Surge Loads	10
Trouble Loads	11
Mobile Digital Power Inverter unit	11
5 Troubleshooting	12
Buzz in Audio Equipment	12
Television Reception	12
Troubleshooting Reference	12
A Specifications	14
Electrical Performance	14
Physical Specifications	14
B Product and System Information	15
Disclaimer	15
Warranty	15
Information About Your System	16

1 Introduction

Congratulations on your purchase of the Mobile Digital Power Inverter! The Mobile Digital Power Inverter has been designed to give you quality power, ease of use, and reliability. Please take a few moments to read this chapter to familiarize yourself with the main performance features and protection features of the Mobile Digital Power Inverter.

Quality Power

The Mobile Digital Power Inverter is a quality inverter designed for recreational vehicle (RV) and truck applications.

- The Mobile Digital Power Inverter provides up to 1500 W of continuous power. It is designed to handle loads such as 600 W microwaves, TVs, VCRs, and midsized power tools.
- The Mobile Digital Power Inverter's high surge capability lets you handle many hard-to-start loads, including large TVs and small refrigerators.
- When the Mobile Digital Power Inverter is on but no power is being supplied to a load, the inverter will draw less than 2A. Please turn the inverter off when not in use to prevent unnecessary battery discharge.
- The remote control will function when the power switch on the Mobile Digital Inverter is in the off position. It will not function when the switch is turned on. Make sure the remote control cable is connected to the inverter securely and the switch is off before operating the remote control.
- The cooling fan will activate under two conditions.
 - 1) When loads are attached to the inverter and draw a significant amount of power,
 - 2) When the internal temperature exceeds the inverter's ambient operating temperature.
- The cooling fan will turn off under two conditions.
 - 1) When the loads attached to the inverter are removed and no longer draw a significant amount of power.
 - 2) When the internal temperature is at the inverter's ambient operating temperature.

Ease of Use

Superior features and rugged durability have been combined with ease of use:

- The Mobile Digital Power Inverter is compact, light weight, and easy to install.
- Loads can be powered directly from the AC outlets.

Comprehensive Protection

The Mobile Digital Power Inverter is equipped with numerous protection features to guarantee safe and trouble-free operation:

Low battery alarm alerts you if the battery has become discharged to 10.5 V - 11.5 V.

Low battery voltage shutdown shuts the Mobile Digital Power Inverter down automatically if the battery voltage drops below 10.0 V - 11.0 V.

This feature protects the battery from being completely discharged.

High battery voltage shutdown shuts the Mobile Digital Power Inverter down automatically if the input voltage rises to 15 V - 16.3 V.

Overload shutdown shuts the Mobile Digital Power Inverter down automatically if a short circuit is detected in the circuitry connected to the inverter's output, or if the loads connected to the inverter exceed the inverter's operating limits.

Over temperature shutdown shuts the Mobile Digital Power Inverter down automatically if its internal temperature rises above an unacceptable level.

2 Features

Chapter 2 describes the main features of the Mobile Digital Power Inverter. We recommend that you familiarize yourself with them before installing and operating the inverter.

Materials List

Your Mobile Digital Power Inverter package includes:

- One Mobile Digital Power Inverter
- One 1.8 m wired remote control
- Owner's Manual

If any of these materials are missing or are unsatisfactory in any way, please contact our **TOLL-FREE HELPLINE: 1-877-466-8191**

AC Panel

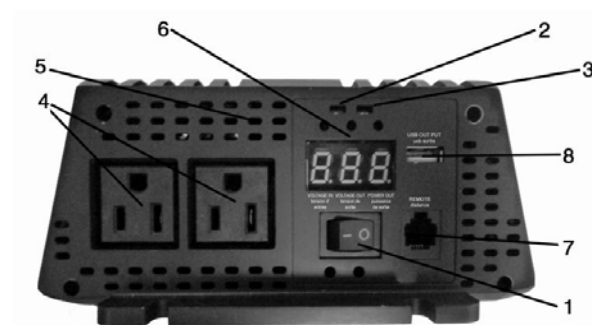
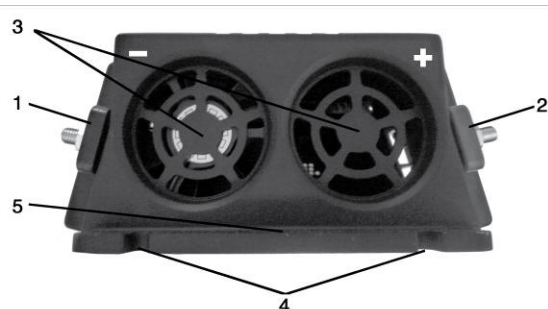


Figure 2-1 AC Panel

Feature	Description
1	ON/OFF switch turns the inverter's control circuit on and off. This switch is not a power disconnect switch. Disconnect AC and DC power before working on any circuits connected to the inverter.
2	Power light is a green light indicating the ON/OFF switch is on and AC voltage is present at the inverter's AC outlets.
3	Fault light is a red light indicating the inverter has shut down due to low or high battery voltage, unit overload, or over temperature. NOTE: To restart the unit after a fault condition has occurred, turn off the unit, and then wait 3 to 5 seconds before turning the unit back on.
4	3-prong AC Outlets: Mobile Digital Power Inverter delivers a combined total of 1500 W of continuous AC power across two outlets.

5	Ventilation Openings must not be obstructed for the proper operation of the inverter. When the inverter is mounted, the ventilation openings must not point up or down.
6	LED Display: Show DC input voltage (V)/AC output voltage (V)/AC output power (KW) NOTE: If you use the 600 W output, AC output power will display 0.60; If you use the 1200 W load, AC output power will display 1.20.
7	Remote: 1.8 m length for operating outside.
8	USB Output: 5 V 2.1 A charge.

DC Panel



1500 W

Figure 2-2 DC Panel

Feature	Description
1	Negative DC Cabling Terminal always connects to the battery cable that is connected to the negative terminal of the battery.
2	Positive DC Cabling Terminal always connects to the battery cable that is connected to the positive terminal of the battery.
3	Ventilation Opening must not be obstructed for the proper operation of the inverter. When the inverter is mounted, the ventilation opening must not point up or down.
4	Screw mounting holes: Inverter installed on the car or wall
5	Mounting Flange allows you to mount the inverter permanently

3 Installation

We highly recommend that you read the entire chapter before beginning the installation procedures so that you can plan an installation that is suited to your power needs.

Calculating Battery Requirements

Battery type and battery size strongly affect the performance of the Mobile Digital Power Inverter. Therefore, you need to identify the type of loads your inverter will be powering, and how much you will be using them between charges. Once you know how much power you will be using, you can determine how much battery capacity you need. We recommend that you purchase as much battery capacity as possible.



CAUTION

The Mobile Digital Power Inverter must only be connect to a 12 V battery system.It will not operate if connected to a 6 V battery, and will be damaged if connected to a battery with 16 V or more.

Choosing an Apporiate Location



WARNING:Explosion or fire hazard

The Mobile Digital Power Inverter contains components that tend to produce Arcs or sparks.To prevent fire or explosion,do not install the inverter in compartments containing batteries or flammable materials,or in locations that require ignition-protected equipment .



WARNING:Fire hazard

To reduce the risk of fire,do not cover or obstruct the ventilation Openings.Do not install the Mobile power Inverter in a zero-clearance compartment.Overheating may result.

The Mobile Digital Power Inverter must only be installed in a location that is:

- | | |
|-------------------------------------|--|
| Dry | Do not allow water or other liquids to drop or splash on it. |
| Cool | Ambient air temperature should be between 32 °F and 105 °F (0°C and 40°C)—the cooler the better within this range. |
| Ventilated | Allow at least 3”(7.5cm) of clearance around the inverter for air flow.Ensure that the ventilated openings on the DC end and on the AC end of the unit are not obstructed. |
| Safe | Do not install the inverter in the same compartment as batteries or in any compartment capable of storing flammable liquids like gasoline. |
| Close to battery | Do not use excessive DC cable lengths:they increase wire resistance and reduce input power.Longer AC wires are preferable to longer DC wires:wire resistance(and therefore voltage drop)is less and the cost is lower. |
| Protected from battery gases | Do not mount the inverter where it will be exposed to gases produced by batteries.Battery gases are corrosive,and prolonged exposure to battery gases will damage the inverter. |

Calculating Cable Sizes

To operate safely and effectively, the Mobile Digital Power Inverter needs proper cables and fuses. Because the Mobile Digital Power Inverter has low-voltage and high-current input, it is essential that you use low-resistance wiring between the battery and the inverter to deliver the maximum amount of usable energy to your load.

For safe and efficient operation, you will need to calculate cable sizes for your:

- DC input cables from the battery to inverter (one way).



WARNING:Fire hazard

Never use a DC cable longer than 5’(1.5m).A cable longer than 5’(1.5m) Can potentially generate enough heat to start a fire or result in poor Inverter performance.

Table 3-1 Recommended DC Input Wire Size & Lengths

	RV^a(Recreational Vehicle)	
Cable length: Battery to inverter(one way)	Minimum Cable Size	Minimum Battery Fuse Size
Less than 5'(1.5m)	No. 2 AWG	150 A DC

Note: Never use a DC cable longer than 5' (1.5 m) with the Mobile Digital Power Inverter. Appropriately sized cable can be bought at a welding supply house or a marine supply store.

DC Panel Connections



A. Connect black cable with negative pole of battery (A: black), connect another side with negative pole of inverter (A: black)

B. Connect red cable with positive pole of battery (B: red), connect another side with positive pole of inverter (B: red)

Note: Do not connect with wrong side, otherwise inverter may damage.

1. Make sure the inverter is off and no AC or DC is connected to the unit.
2. Remove the nuts and washers from the positive and negative DC terminals.
3. Attach the connectors that will secure the cables to the battery, to the disconnect/battery selector switch, and the fuse block. The connectors you use must create a permanent, low-resistance connection. If crimp connectors are required, MotoMaster recommends using approved and certified connectors, and to use the tool recommended by the terminal manufacturer. Make sure no stray wires protrude from the connector or terminal.
4. For each cable end that will be connected to the inverter, strip 1/2"(13 mm) to 3/4" (19 mm) of insulation from the cable. The amount stripped off will depend on the terminals chosen.

Noted: This item not include DC cable

5. Thread a DC terminal cover over the positive and negative cables. The red cover goes on the positive cable; the black cover on the negative cable.
6. To prevent sparking when making the connection, ensure the disconnect/battery selector switch is off.
7. Install the lock washer and nut that are supplied with the inverter. Tighten the nut to a torque of 9–10 ft-lb (12.2–13.6 N-m). Make the connection snug enough so the ring terminal does not move around on the DC terminal, but do not over tighten.

DC Cable Connections



Breaker Size	10 A	15 A	20 A	30 A
Minimum Wire Size	14 AWG	14 AWG	12 AWG	10 AWG



CAUTION

Loose connections cause excessive voltage drop and may cause overheated wires and melted insulation.



CAUTION

Do not over-tighten the nut on the DC input terminals. Damage to the DC input terminals may result. The maximum torque setting is 10 ft-lb (13.6 N-m).



CAUTION: Reverse Polarity

DC power connections to the Mobile Digital Power Inverter must be positive to positive and negative to negative.

A reverse polarity connection (positive to negative) will blow fuses in the inverter and may permanently damage the inverter. The fuses are not user replaceable and the inverter may need to be returned for servicing.

Damage caused by a reverse polarity connection is not covered by your warranty.

4 Operation

Chapter 4 explains how to operate the Mobile Digital Power Inverter efficiently and effectively. Specifically, this chapter:

- Gives procedures for operating the inverter from the front panel
- Discusses operating limits and inverter loads
- Provides information about routine maintenance

Turning the Inverter ON and OFF

The ON/OFF switch on the inverter's front panel turns the control circuit in the Mobile Digital Power Inverter on and off.

To turn the inverter on and off from its front panel:

- Move the ON/OFF switch to the ON position to turn the inverter on.
- Move the ON/OFF switch to the OFF position to turn the inverter off.

When the switch is off, the inverter draws a very low current from the battery.

NOTE: The digital display on the inverter may not show the exact power in watts that is being used. Devices that draw a small load when compared to the capacity of the inverter may display zero for power out, this is normal. Please double check that the small load device is working as expected if the display shows a zero. Please contact our customer support for questions at 1-877-466-8191.



CAUTION

The remote control will function when the power switch on the Mobile Digital Inverter is in the off position. It will not function when the switch is turned on. Make sure the remote control cable is connected to the inverter securely and the switch is off before operating the remote control.



CAUTION

The Mobile Digital Power Inverter's ON/OFF switch does not disconnect DC battery power from the Mobile Digital Power Inverter. You must disconnect AC and DC power before working on any circuits connected to the inverter.

Operating Several Loads at Once

If you are going to operate several loads from the Mobile Digital Power Inverter, turn them on one at a time after you have turned the inverter on.

Turning loads on separately helps to ensure that the inverter does not have to deliver the starting current for all the loads at once, and will help prevent an overload shutdown.

Turning the Inverter Off Between Uses

The Mobile Digital Power Inverter draws less than 2 A from the battery with the ON/OFF switch turned on and no load connected, but left in this state the Mobile Digital Power Inverter will eventually discharge the battery. To prevent unnecessary battery discharge, turn the Mobile Digital Power Inverter off when you are not using it.

Operating Limits

Power Output

The Mobile Digital Power Inverter can deliver up to 1500 W continuous. The wattage rating applies to resistive loads such as incandescent lights.

Input Voltage

The allowable Mobile Digital Power Inverter input voltage ranges are shown in the following table.

Operating Condition	Voltage Range	Comment
Normal	11.0 V–15.0 V	
Optimum Performance	12.0 V–13.0 V	
Low Voltage Alarm	10.5 V–11.5 V	The low battery alarm sounds
Low Voltage Shutdown	10.0 V–11.0 V	The inverter shuts down to protect the battery from being over-discharged
High Voltage Shutdown	15.0 V–16.3 V	The inverter shuts down to protect itself from excessive input voltage. Note: Although the Mobile Digital Power Inverter incorporates over-voltage protection, it can still be damaged if input voltage exceeds 16.3 V.

Inverter Loads

The Mobile Digital Power Inverter will operate most AC loads within its power rating of 1500 W. However, some appliances and equipment may be difficult to operate, and other appliances may actually be damaged if you try to operate them with the Mobile Digital Power Inverter. Please read “High Surge Loads” and “Trouble Loads” carefully.

High Surge Loads

Some induction motors used in freezers, pumps, and other motor-operated equipment require high surge currents to start. The Mobile Digital Power Inverter may not be able to start some of these motors even though their rated current draw is within the inverter’s limits. The Mobile Digital Power Inverter will normally start single-phase induction motors rated at 1/2 horsepower or less.

Note: Although the Inverter can supply momentary surge power up to 3000 W, some appliances may exceed the capabilities of the Inverter and trigger the safety

overload shutdown circuit. This shutdown is intermittent. It will automatically restart, then shutdown like a flashlight. We recommend you to check the output of your appliance.

Trouble Loads



CAUTION

Some equipment may be damaged by the Mobile Digital Power Inverter's modified sine wave output.

Some appliances, including the types listed below, may be damaged if they are connected to the Mobile Digital Power Inverter:

- Electronics that modulate RF (radio frequency) signals on the AC line will not work and may be damaged.
- Speed controllers found in some fans, power tools, kitchen appliances, and other loads may be damaged.
- Some chargers for small rechargeable batteries can be damaged. See "Precautions for Using Rechargeable Appliances" for details.
- Metal halide arc (HMI) lights can be damaged.

Important: If you are unsure about powering any device with the Mobile Digital Power Inverter, contact the manufacturer of the device.

Mobile Digital Power Inverter unit

Minimal maintenance is required to keep your Mobile Digital Power Inverter operating properly. Periodically you should:

- Clean the exterior of the unit with a damp cloth to prevent the accumulation of dust and dirt.
- Ensure that the DC cables are secure and fasteners are tight.
- Make sure the ventilation openings on the AC and DC panels and the bottom of the inverter are not blocked.

5 Troubleshooting

Chapter 5 will help you identify the source of most problems that can occur with the Mobile Digital Power Inverter.

If you have a problem with the inverter, please review this chapter before contacting your dealer.

Buzz in Audio Equipment

Some inexpensive stereo systems may emit a buzzing noise from their loudspeakers when operated from the Mobile Digital Power Inverter. This occurs because the power supply in the audio system does not adequately filter the modified sine wave produced by the inverter. The only solution is to use a sound system that has a higher quality power supply.

Television Reception

When the Mobile Digital Power Inverter is operating, it can interfere with television reception on some channels. If interference occurs, try the following:

1. Make sure that the television antenna provides an adequate ("snow-free") signal, and that you are using good quality cable between the antenna and the television.
2. Keep the cables between the battery and the Mobile Digital Power Inverter as short as possible, and twist them together with two to three twists per foot. (This minimizes radiated interference from the cables.)
3. Move the television as far away from the Mobile Digital Power Inverter as possible.
4. Do not operate high power loads with the Mobile Digital Power Inverter while the television is on.

Troubleshooting Reference



WARNING: Electrical Shock and Burn Hazard

Do not disassemble the Mobile Digital Power Inverter. It does not contain any user serviceable parts. Attempting to service the unit yourself could result in an electrical shock or burn.

Table 5-1 Troubleshooting Reference

Problem	Possible Cause	Solution
Low output voltage (96 V AC–104 V AC)	You are using a voltmeter that cannot accurately read the RMS voltage of a modified sine wave. Low input voltage and the load is close to maximum allowable power.	Use a true RMS reading voltmeter. Check the connections and cable to see if the battery is fully charged. Recharge the battery if it is low. Reduce the load.
No output voltage Both the Power light and Fault light are off.	The inverter is off. No power to the inverter. The inverter could have been connected with reverse DC input polarity.	Turn the inverter on. Check the wiring to the inverter and to the Disconnect/Battery Selector switch. The inverter has probably been damaged. Return the unit. Damage caused by reverse polarity is not covered by the warranty. Information for returning the inverter is provided in the Warranty section

Problem	Possible Cause	Solution
No output voltage. Fault light is on	Low input voltage High input voltage Thermal shutdown Unit overload Output is short circuited.	Recharge the battery; check the connections and cable. Make sure the Mobile Digital Power Inverter is connected to a 12 V battery check the voltage regulation of the charging system. Allow the unit to cool off. Reduce the load if continuous operation is required. Improve ventilation. Make sure the inverter's ventilation openings are not obstructed. Reduce the ambient temperature. Reduce the load. Make sure the load does not exceed the Mobile Digital Power Inverter's output rating. Remove the short circuit.
Low battery alarm stays on.	Poor DC wiring; poor battery condition	Use proper cable size and lengths and make solid connections. Charge the battery. Install a new battery
Unit does not restart after a fault condition	Unit is restarted too soon.	Turn off the unit then wait about 3 to 5 seconds before turning it on again

A Specifications

Appendix A contains electrical performance and physical specifications for the Mobile Digital Power Inverter

Note: Specifications are subject to change without notice.

Electrical Performance

Electrical performance	Mobile Digital Power Inverter
Output power at 77°F (25°C) ambient temperature and 12 V DC input: • Maximum continuous output power • Maximum surge power	1500 W 3000 W
Output voltage	120 V AC RMS
Output waveform	Modified sine wave
Output frequency	60 +/-1 Hz
Input voltage	11.0-15.0 V DC
Nominal current at full load	<115A
Maximum input current (Peak)	<230A
Low voltage alarm	10.5 V-11.5 V
Low voltage cut out	10.0 V-11.0 V
Optimum efficiency	90%
No load current draw	<2 A DC

Physical Specifications

Physical Specifications:	
Weight: Dimensions:	6 lb 3 oz (2.8 kg) 16 3/16 x 7 7/16 x 3" (41.1 x 18.9 x 7.7 cm)

B Product and System Information

1-Year Limited Warranty

Appendix B contains the warranty for your inverter as well as instructions for returning the product for servicing.

Appendix B also has a form where you can record information about your system on page B-3, in case you need to contact Customer Service.

Disclaimer

Unless specifically agreed to in writing, MotoMaster[®] Canada:

- (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 loss or damage, whether 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.

Warranty

What does this warranty cover? This product is manufactured from parts and components that are new or equivalent to new, in accordance with industry-standard practices. This warranty covers any defects in workmanship or materials.

How long does coverage last? This warranty lasts for 12 months from the date of purchase.

What does this warranty not cover? This warranty will not apply when the product 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.

What will we do? MotoMaster[®] Canada will, at its option, repair or replace the defective product free of charge. MotoMaster[®] Canada will, at its own option, use new and/or reconditioned parts made by various manufacturers in performing warranty repair and building replacement products. If MotoMaster[®] Canada repairs or replaces a product, its warranty term is not extended. MotoMaster[®] Canada owns all parts removed from repaired products.

How do you get service? To qualify for warranty service you must provide the dated proof of purchase and the item should not appear to have been opened, modified or disassembled in any way. Contact our toll free support line 1-877-466-8191 to arrange for warranty service.

Information About Your System

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

- 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.

- Type of installation [e.g. RV, truck, vehicle] _____
- Length of time inverter has been installed _____
- Battery/battery bank size _____
- DC wiring size and length _____
- Appliances operating when problem occurred _____
- Description of problem _____

Service Contact Information

TOLL-FREE HELPLINE: 1-877-466-8191



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