model no. 011-1892-4



1000 WATT PURE SINE WAVE DIGITAL INVERTER



IMPORTANT:

This manual contains important safety and operating instructions. Read all instructions and follow them with use of this product.

INSTRUCTION MANUAL



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DO NOT RETURN THIS PRODUCT TO THE STORE!

QUESTIONS? CALL CUSTOMER SERVICE, HOTLINE: 1-877-619-6321

SAFETY INFORMATION



This manual contains information that relates to PROTECTING PERSONAL SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Carefully read and follow the quidelines in this manual and give special attention to the CAUTION and WARNING statements.

ABBREVIATIONS AND **ACRONYMS**

Α	Amp (Ampere)
AC	Alternating current
cm	Centimeter
DC	Direct current
kW	Kilowatt
mm	Millimeter
٧	Volts
W	Watts

SHOCK HAZARD

- **DO NOT** expose the Digital Power Inverter to rain, snow, spray, or bilge water.
- · Make sure the inverter wiring is of proper size and rating and in good condition. Operating the inverter with damaged wiring may void warranty.

- **DO NOT** use the inverter if it has been dropped, hit, worn, broken, or damaged.
- **DO NOT** attempt to service or disassemble the inverter, as it does not have user-serviceable parts and the internal apacitors remain charged even if the power source is disconnected.
 - Disconnect DC power source from the inverter, before attempting to service, clean, or operate on any circuits connected to inverter. Turning off the controls will not reduce the risk of electric shock.
- **NEVER** connect the inverter to any power distribution systems or branch circuits.

FIRE HAZARD

- DO NOT cover or obstruct the ventilation of the inverter. as doing so may cause overheating.
- Make sure there is minimum of 3" (7.5 cm) of unblocked air space around the entire surface of the inverter at all times. The inverter may become warm reaching a temperature of

- 140°F (60°C) under high power operation
- **DO NOT** place any materials near the inverter, that could be easily damaged by heat.
- Never install the inverter in a zero-clearance environment. as doing so may cause overheating of the inverter...

EQUIPMENT DAMAGE

DO NOT connect the inverter to live AC power circuits or any AC device with neutral conductor connected to ground, to avoid damage to the inverter, even if the inverter is switched off.

SAFETY PRECAUTIONS WHEN WORKING WITH **BATTERIES**

Follow all instructions mentioned by the manufacturer to avoid explosion of the battery.

EXPLOSION AND FIRE HAZARD

DO NOT work near lead-acid batteries, as the batteries generate explosive gases during normal operation.

- **DO NOT** drop a metal tool on the battery, as doing so can create spark or short circuit in the battery or other electrical parts, resulting in battery explosion
- · While removing the battery. make sure to remove grounded terminal from the battery and disconnect other electrical connections.
- Always have someone nearby when working with the leadacid batteries.
- **NEVER** operate the inverter near flammable items or explosives, such as in cabin of a gasoline powerboat, or near propane/fuel tanks, in compartments containing batteries of flammable materials, locations that require ignition-protected equipment, joints, fittings or any connections between fuel system components. This inverter contains components which tend to produce arcs or sparks.

SAFETY INFORMATION



- Make sure the area around the battery and engine is well ventilated and free from spark or flame.
- NEVER smoke while handling the inverter.
- DO NOT operate the inverter in an enclosed area containing automotive type lead-acid batteries. These types of batteries emit explosive hydrogen gas that can be ignited by sparks.
- DO NOT remove the battery with any of the accessories attached, to prevent the risk of sparks.

CHEMICAL HAZARD

- Remove all metal items such as rings, bracelets, and watches when working with the leadacid batteries. The batteries may produce short circuit current that can weld metals, thereby causing severe burns on skin.
- Make sure there is plenty of fresh water, soap and baking soda near the work area. If a person's skin or clothing

- accidentally contacts with battery acid, wash immediately with baking soda, soap and water. If the acid enters the eye, wash immediately with cold, running water for a minimum of twenty minutes and get medical attention immediately.
- Always wear complete eye and clothing protection. Avoid touching your eyes while working with the batteries.

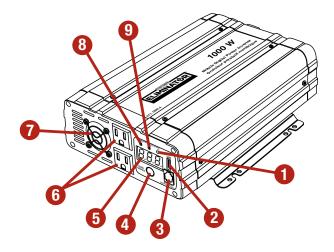
EQUIPMENT DAMAGE

- Connect the inverter to batteries with a normal output of 12 V DC only. The inverter will not operate if connected to a 6 V battery and will be damaged if connected to a 24 V battery.
- DO NOT insert any foreign objects into the outlets, vents, or fan openings of the inverter.
- D0 NOT use the inverter in temperatures over 40°C (104°F) or under -10°C (14°F).

AC PANEL

- Output power indicator (W)
- USB port
- 3 Remote switch port
- Power switch button
- Digital display

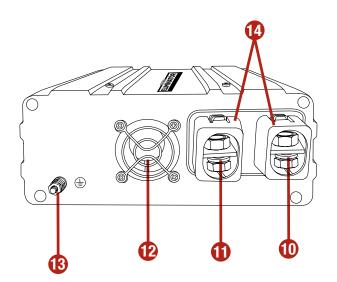
- 6 AC Outlets
- Cooling fan and ventilation opening
- 8 Input indicator (V)
- Output power indicator (kW)



DC PANEL

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- Positive DC terminal
- Negative DC terminal
- Cooling fan and ventilation opening
- Ground terminal
- Terminal covers



MM-111892-02

General use

The MotoMaster 1,000 Watt Pure Sine Wave Digital Power Inverter provides up to 1000 W of continuous output power for large loads, intermittent loads, or smaller loads. This inverter is designed for charging or powering large TVs, small refrigerators, VCRs, midsized power tools and microwaves.

Characteristics of inverter

- The inverter is not waterproof.
- The inverter has high surge capability of up to 1000 W and hence can handle hard-tostart loads, including large TV, refrigerators, and freezers.
- The inverter's low standby power ensures less battery discharge, even if it is kept ON for few days. (Stand by time is varied and is based on the capacity of battery connected.) It is not recommend to keep the inverter always on when it is not in use.
- The inverter is compact, durable, light weight, efficient and easy to install and use.

SAFETY FEATURES

ELIMINATUR

The safety features of the inverter ensures safe and trouble-free operation.

AC OUTPUT OVERLOAD OR SHORT CIRCUIT SHUTDOWN -

This feature automatically turns OFF the inverter if a short circuit occurs or if the load attached to the inverter exceeds the operating limit. The digital display will show "OLP" or "OPP" and the audible alarm is also activated.

HIGH BATTERY VOLTAGE

SHUTDOWN - This feature automatically shuts down the inverter if the input voltage exceeds 15.5 +/- 0.5 V. The digital display will show "OUP" and the audible alarm is also activated. The inverter recovers automatically when the battery voltage drops to a safe range.

LOW BATTERY VOLTAGE ALARM

- The alarm produces an audible sound if the battery discharges to 11.0 + - 0.3 V. The digital display will show "LUP".

IMPORTANT INFORMATION

LOW BATTERY VOLTAGE

SHUTDOWN - This feature automatically shuts down the inverter if the battery voltage drops to 10.5 +/- 0.3 V. The digital display will show "LUP" to prevent the battery from being completely discharged. The inverter recovers automatically when the battery voltage is 12.0 +/- 0.3 V DC.

OVER TEMPERATURE
SHUTDOWN - This feature
automatically turns OFF the
inverter if the internal components
temperature becomes too high.
The audible alarm produces a
beep when this happens and the
digital display will show "OCP".
This maybe caused by the ambient
temperature being too high (over
40°C) or bad ventilation. The digital
display will show "OCP".

MAIN FEATURES OF AC PANEL

OUTPUT POWER INDICATOR (W)

- This indicator 1 indicates that the load consumption is less than 1000 W. The digital display shows output power in watts. **USB PORT -**The port **2** powers and charges USB-enabled devices.

REMOTE SWITCH PORT - The port 3 through which the remote control is connected using a communication cable of 6 m.

POWER SWITCH BUTTON - This button 4 turns ON/OFF the inverter.

DIGITAL DISPLAY - This display shows input voltage in volts, output power in kilowatts or watts under normal operating conditions. It displays error code informations or alarm conditions. The allowed power tolerance is 15% for loads of over 300 W. The allowed voltage tolerance is \pm 0.2 V under no load conditions.

AC OUTLET - The inverter is provided with two AC outlets into which 115 V AC electrical appliance having a power consumption of 1000 W or less can be plugged in.

COOLING FAN AND VENTILATION OPENING - This feature
protects the inverter from
overheating. The ventilation
openings should be kept clear.

INPUT INDICATOR (V) -This indicator 3 indicates that the inverter is turned ON. The digital display shows DC input voltage.

OUTPUT POWER INDICATOR
(kW) - This indicator ① indicates
that the load consumption is 1000
W or above. The digital display
shows output power in kilowatts.
When AC output power is within
1050 W-1400 W, the AC output
overload shutdown feature turns
OFF the inverter.

MAIN FEATURES OF DC PANEL

POSITIVE DC TERMINAL - This terminal 10 accepts the ring connector of the positive cable connected to the battery.

NEGATIVE DC TERMINAL - This terminal 1 accepts the ring connector of the negative cable connected to the battery.

cooling fan and ventilation
OPENING - This feature protects the inverter from
overheating. The ventilation
openings should be kept clear.

GROUND TERMINAL - This terminal **(3)** accepts a ground wire which is connected to ground.

TERMINAL COVERS - These covers **(2)** are plastic covers to prevent positive and negative DC terminal short circuit if the bolt and nut are loosened.

INVERTER LOADS

The inverter will operate AC loads within its power rating of 1000 W. However, some appliances and equipment may be difficult to operate.

HIGH SURGE LOADS

Some induction motors used in freezers, pumps, and other motor operated equipment need high surge urrent to start. This Inverter may not be able to start these motors even though their rated current is within the inverter's limits. Observe the voltage reading in digital display during motor starting.

 If the reading drops below 11 V while the inverter is starting the motor, make sure all connections are securely fastened, battery is fully charged and proper sized cables are used.



 Use a high capacity battery, if the voltage still drops below 11 V even after rectifying the problem.

INDICATORS AND DIGITAL DISPLAY CODES

CONDITION	DIGITAL DISPLAY	DESCRIPTION
Left indicator on	13.5	Power supply: 13.5 Volts
Middle indicator on	1	Load consumption: 1 kW (1000 W)
Right indicator on	500	Load consumption: 0.5 kW (500 W)
	LUP	Low voltage alarm
	LUP	Under voltage shutdown
	OUP	Over voltage shutdown
	OLP	Over load shutdown
	OCP	Over temperature shutdown
	0PP	Short circuit

OPERATING LIMITS

The inverter delivers power to the load based on input voltage and ambient temperature. The inverter will deliver more than 100 % of its continuous power rating for approximately 5 minutes. Allow the inverter to cool for 15 minutes before resuming operation above continuous power rating.

INPUT VOLTAGE

The table below depicts the input voltage limits under various operating conditions.

OPERATING CONDITION	VOLTAGE RANGE	DESCRIPTION
Normal	11 - 14 V	
Peak performance	13 - 14 V	
Low voltage alarm	$11.0 \pm 0.3 \mathrm{V}$	The audible low battery voltage alarm sounds. The display will show "LUP".
Low voltage shutdown	$10.5 \pm 0.3 \mathrm{V}$	The inverter shuts down to protect the battery from being over-discharged. The display will show "LUP".
High voltage shutdown	15.5 ± 0.5 V	The inverter shuts down to protect itself from excessive input voltage. The display will show "OUP" NOTE: Even though the inverter has over-voltage protection feature, it can be damaged if input voltage exceeds 16 V.
Inverter restarts after low voltage shutdown	12.0 ± 0.3 V	The inverter will not restart unless the battery voltage is suitable for operating the load.

IMPORTANT INFORMATION



LOAD PERFORMANCE CHART FOR THE 1,000 WATT PURE SINE WAVE DIGITAL POWER INVERTER 011-1892-4

This power inverter is pure sine wave inverter, it will perform good for most of the appliances. Please refer to below table for applications performance rating comparison of modified sine wave inverter and pure sine wave inverter.

APPLICATIONS	PERFORMANCE RATING		
	MODIFIED SINE WAVE INVERTER	PURE SINE WAVE INVERTER	
LCD/Plasma TV	_	* * *	
Standard TV	* *	* * *	
Audio equipment	*	* * *	
Laptop	* * *	* * *	
Desktop computer	* *	* * *	
Microwave	* *	* * *	
Table saw/ Air compressor	* *	* * *	
Hand power tool	* *	* * *	
Coffee maker, toaster, hair dryer	* * *	* * *	
Blender, mixer, coffee grinder	* *	* * *	
Laser printer	_	* * *	
Photo copier	_	* * *	
Bubble jet printer	* *	* * *	

APPLICATIONS	PERFORMANCE RATING			
	MODIFIED SIN INVERTE		PURE SINE WAVE INVERTER	
Fax machine	* *		* * *	
Air conditioner	*		* * *	
Light (incandescent)	* * *		* * *	
Light (others)	* *		* * *	
Medical equipment	_		* * *	
— Not recommended	* *	Good perfo	ormance	
* Adequate performance	* * *	Ideal perfo	ormance	

LOAD RUN TIME SPECIFICATION

LOAD RUN TIME PER BATTERY TYPE						
APPLIANCE	WATTS	22 NF (50 AH)	24 NF (75 AH)	27 NF (100 AH)	8D (200 AH)	DUAL 8DS (400 AH)
Computer	200	1 h 30 min	2 h 30 min	3 h 30 min	8 h	19 h
Power drill	400	40 min	1 h 5 min	1 h 30 min	3 h 30 min	8 h
Small coffee maker	600	-	-	-	2 h 10 min	5 h
Microwave oven	1000	_	-	-	1 h 10 min	2 h 30 min

Not recommended

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PACKAGING CONTENTS

NO.	MATERIAL NAME	QUANTITY	ILLUSTRATION
1	Digital Power Inverter	1	
2	6 m wired remote control	1	
3	Owner's manual	1	

NOTE:

If any of these materials are missing or damaged, please contact our TOLL-FREE HELPLINE: 1-877-619-6321.

BEFORE INSTALLATION

Follow all instructions including safety guidelines mentioned in this manual.

DETERMINING BATTERY CAPACITY

- Determine the battery capacity based on the type and requirement of load.
 Please use with 12 V battery only.
- Battery type and size strongly affect the performance of the inverter.

DETERMINING CHARGING SYSTEM

- Choose an appropriate charging system. A well-designed charging system allows the battery to remain in optimal condition, thereby supplying power when needed.
- Inadequate charging and wrong charger type will affect the system performance and reduce battery life.

\triangle

WARNING!

Please consult a qualified professional for installing electrical equipment. Only qualified professionals have knowledge of applicable installation codes and the hazards involved in performing electrical work.



CAUTION! EQUIPMENT DAMAGE

The inverter will not operate if connected to a 6 V battery and will be damaged if connected to a 24 V battery.

model no. 011-1892-4 | contact us 1-877-619-6321

CHOOSING A LOCATION

The inverter should be operated only in locations that meet the following requirements:

CONDITION	DESCRIPTION
Dry	Avoid splashing of water or other liquids on the inverter.
Cool	Maintain the ambient air temperature between 14°F and 104°F (-10°C and 40°C).
Ventilated	Leave at least 3" (7.5 cm) of space around the inverter for airflow. Ensure that the ventilation openings are not obstructed.
Safe	Do not install the inverter in a compartment containing batteries or flammable liquids like gasoline.
Close to battery	Do not use an excessively longer DC cable, as it increases wire resistance and reduces input power.
Protection from battery gases	Do not mount the inverter in a place where it is exposed to gases produced by the batteries. Prolonged exposure to these gases will damage the inverter, as they are very corrosive.
Clean	Do not operate the inverter in an area that is prone to dirt, dust or debris.

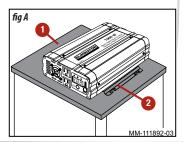


WARNING!

- To prevent fire or explosion, do not install the inverter in compartments containing batteries, flammable materials, or ignition-protected equipment.
- Do not cover or obstruct the ventilation openings of the inverter.
- Never install the inverter in a zero-clearance environment, as doing so may cause overheating of the inverter.
- Do not use the inverter in marine applications.

MOUNTING THE INVERTER

- Place the inverter in a suitable location and orientation. The inverter can be positioned on a vertical or horizontal surface. Make sure the inverter DC connections must point left/right while installing on vertical surface.
- Hold the inverter against the mounting surface (1) and mark the positions on the surface with respect to mounting bracket (2) (fig A).



- Drill four mounting holes on the marked position of the surface.
- Align the holes on the mounting surface with corresponding holes of the mounting bracket.
 Fasten the inverter on the mounting surface using corrosion-resistant fasteners.
 It is recommended to use M6 fasteners for mounting purpose.



CAUTION! EQUIPMENT DAMAGE

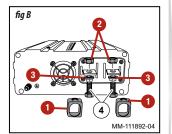
- Do not install the inverter in a wet environment or in any environment where the moisture can enter through the ventilation openings.
- If mounted vertically, the DC connections should not point up or down to avoid foreign material from falling or settling into the unit.

- Make sure the inverter is turned OFF.
- Prepare 1 set of positive and negative cables to connect to battery. Copper cable with 2 ring terminals are recommended (ring terminals at inverter side should have 10 mm diameter hole, and other side should be the same size as the battery terminal connection).

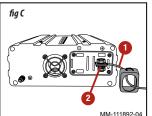
It is highly recommended to use red cable for the positive terminal and black cable for the negative terminal. The copper cables gauge should be:

CABLE LENGTH	CABLE GAUGE
<=3'	6 AWG
<=6'	4 AWG
<=10'	2 AWG

 Remove the terminal covers (1), nuts (2), washers (3) and bolts (4) from the positive and negative DC terminals (fig B).



 With the positive cable passing through the terminal cover, connect the ring connector of the positive (red) battery cable (1) to the positive (red) DC terminal (2) of the inverter (fig C).



NOTE:

The Digital Power Inverter uses low-voltage and high-current input, hence low-resistance wiring between the battery and the inverter is essential to deliver the maximum amount of usable energy to the load.



WARNING!

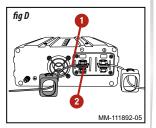
- It is strongly recommended to contact a qualified professional.
- Do not perform the cable connection if the environment has any flammable fumes. Always ventilate the battery compartment before making this connection. If not explosion or fire may occur.
- Always make sure the cable connection is tight. Loose connections may cause excessive voltage drop, thereby leading to overheating and melting of cable insulation.



CAUTION! EQUIPMENT DAMAGE

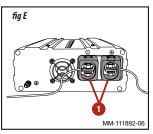
Do not change the negative and positive polarities of battery cable, while connecting into the DC terminals. A reversed polarity connection will damage the inverter, thereby voiding the warranty.

5. With the negative cable passing through the terminal cover, connect the ring connector of the negative (black) battery cable (1) to the negative (black) DC terminal (2) of the inverter (fig D).



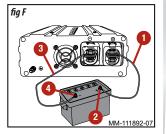
Insert the nuts on both DC terminals and tighten them with washers. Do not overtighten.

7. Insert both terminal covers (1) back to the inverter (fig E).

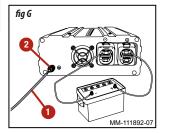


Connect the negative (black)
 battery cable (3) ring terminal
 to the negative (black) post (4)
 of the battery (fig F). Tighten the
 nut with washer firmly. Do not
 overtighten.

 Connect the positive (red) battery cable (1) ring terminal to the positive (red) post (2) of the battery (fig F). Tighten the nut with washer firmly. Do not overtighten.



 Prepare a 14 AWG copper wire (1) with enough length to connect the inverter to a ground. Strip the insulation at both sides. Connect one end of the copper wire to the ground terminal (2) of the inverter, and the other end of the wire to the ground (fig G).



NOTE:

If connecting the inverter in a vehicle, connect the copper wire to the chassis of the vehicle. If connecting the inverter in a boat, connect the copper wire to the boat grounding system. If connecting the inverter in a fixed location, connect the copper wire to a ground rod (a metal rod pounded into the earth) or other proper service entrance ground.



CAUTION! EQUIPMENT DAMAGE

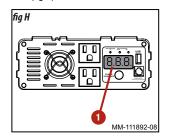
Do not change the negative and positive polarities of battery cable, while connecting into the DC terminals. A reversed polarity connection will damage the inverter, thereby voiding the warranty.

NOTE:

Spark may occur during the cable connection. This is normal condition.

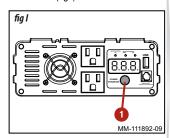


- Turn ON the inverter using power switch button. Refer operating instructions page 25, step 1.
- Check the front panel of the inverter. The digital display (1) will indicate 12-13 V, depending on the battery voltage. If there is no indication, check the battery and its connection to the inverter (fig H).



TURNING ON/OFF THE INVERTER

 Press the power switch button (1) for half a second to turn ON the inverter (fig I).



Press the power switch button for one second to turn OFF the inverter.

RESTARTING THE INVERTER AFTER AC OUTPUT SHUTDOWN

- Press the power switch button for one second to turn OFF the inverter.
- 2. Remove all AC loads from the inverter. Allow the inverter to cool down for 15 minutes.
- Then, press the power switch button for half a second to turn ON the inverter.

NOTE:

- The inverter does not draw current from the battery, when the power switch button is in OFF position.
- When the power switch button is in ON position and there is no power supply to the
 load, the inverter draws less than 0.7 A from the battery. It would take a week to
 discharge a 100 Ah battery with this low current. Therefore, there will not be excessive
 discharge of the battery even if the inverter remains in ON condition for several days.
- Keep the inverter in OFF condition, if the battery does not need to be recharged within a week.



WARNING!

Be cautious while handling the inverter, as there will be power supply to the inverter even if the power switch button is turned OFF.

MAINTENANCE

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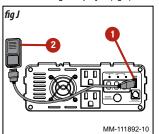


OPERATING SEVERAL LOADS

- Press the power switch button for half a second to turn ON the inverter.
- While operating multiple loads, turn ON the loads from high capacity to low capacity. This will avoid the inverter from delivering the starting current for all the loads simultaneously.

CHARGING USB LOADS

 Use the USB port (1) for charging and powering USB-powered devices (2) such as portable music (MP3) player, mobile phone, and video game player (fig J).



 Make sure the USB device accepts 5 V and can be charged using a USB power source. Refer technical specifications page 30.

MAINTENANCE

The inverter will operate efficiently when maintained properly.

- Clean the exterior surface of the inverter with a damp cloth to prevent accumulation of dust and dirt.
- Ensure that the DC cables are secured and fasteners of the DC terminals are tightened.
- Recharge the battery before it is discharged to 50%. This will extend the durability and efficiency of the battery.



CAUTION! EQUIPMENT DAMAGE

Do not charge portable GPS receivers and certain cameras using this inverter, as these devices may not be compatible and damage the inverter when plugged in. **TROUBLESHOOTING**

TROUBLESHOOTING

INCODELSIIO	iiitu	
PROBLEM	POSSIBLE CAUSE	SOLUTION
The digital display shows "LUP".	Low battery voltage shutdown feature turns OFF the inverter.	Recharge the battery. Check if cables and connections are secure.
	DC wiring is incorrect.	Use proper cable length and gauge. Refer assembly instructions page 20. Make secure cable connections.
	 Battery condition is poor. 	 Charge or replace the battery if needed.
The digital display shows "OUP".	High battery voltage shutdown feature turns OFF the inverter.	Make sure the inverter is connected to a 12 V battery.
The digital display shows "OLP".	AC output overload shutdown feature turns OFF the inverter.	Make sure the load attached to the inverter is within the operating limit. Refer technical specifications page 30.
The digital display shows "OCP".	Over temperature shutdown feature turns OFF the inverter.	Make sure the inverter is placed in a well-ventilated area and ventilation openings are not obstructed. Reduce the ambient temperature if possible. Refer technical specifications page 30.
The digital display shows "OPP".	Occurrence of short circuit.	Check the AC wiring.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No output voltage and voltage indication.	 The inverter is in OFF position. 	Turn ON the inverter.
	There is no power supply to the inverter.	Check the wiring to the inverter.
	Reversed DC polarity.	Reverse DC polarity will damage the inverter and voiding the warranty. Have a qualified service technician to repair.

NOTE:

For further assistance with the MotoMaster $^{\! \otimes}$ Eliminator, contact customer service at 1-877-619-6321.



WARNING!

Do not disassemble the inverter, as it does not contain userserviceable parts.

Have the inverter serviced by a qualified technician. Attempting to service the inverter by yourself could result in electric shock or burn.

TECHNICAL SPECIFICATION



ELECTRICAL SPECIFICATION

Continuous AC output power	1000 W
Maximum AC output surge power	2000 W
AC output voltage range	104 - 127 V AC
AC Output frequency (nominal)	60 ± 1 HZ
AC Output waveform	Pure sine wave
DC output (USB output)	5 V DC, 2100 mA
DC input voltage range	11.0 - 15.0 V DC
Low battery alarm	Audible, 11 \pm 0.3 V DC
Low battery shutdown	$10.5\pm0.3\mathrm{VDC}$
Low battery shutdown resume	$12.0 \pm 0.3 \mathrm{V}$
High battery shutdown	$15.5 \pm 0.5 \mathrm{V}$
Fuse (replaceable)	35 A fuse x 5

PHYSICAL SPECIFICATION

Ambient operating temperature range	14°F to 104°F (-10°C to 40°C)
Dimension (L x W x H)	12 x 8 3/8 x 3 1/4" (30.5 x 21.3 x 8.3 cm)
Weight	6.8 lb (3.1 kg)

IMPORTANT:

All specifications are subject to change without notice.

This MotoMaster® Eliminator product carries a two (2) year limited warranty against defects in workmanship and materials. At its discretion, MotoMaster Canada agrees to have any defective part(s) repaired or replaced free of charge, within the stated warranty period, when returned by the original purchaser with proof of purchase. This product is not guaranteed against wear or breakage due to misuse and/ or abuse.

Imported by MotoMaster® Canada, Toronto, Canada M4S 2B8.