

4-in-1 Extreme Power



Introduction

Safety

IMPORTANT:

Prior to use, read and understand all warnings, cautions, and instructions included in this instruction manual, and those published by your vehicle battery manufacturer and manufacturer of any device intended to be used with this unit. Retain these instructions for future reference.

FIRST AID:

Make sure fresh water and soap are available nearby in case battery acid contacts skin, eyes or clothing. If contact with battery acid occurs, rinse immediately and thoroughly with water. Then wash with soap and water. Obtain immediate medical attention if redness, irritation or pain is present. For eye contact, flush eyes for at least 15 minutes and obtain immediate medical attention.

CAUTIONS:

- * Never work alone with this product. Make sure that someone is available to give assistance if needed.
- * Wear complete eye and clothing protection. Do not touch eyes while working near battery.
- * Always keep the clamps in their storage covers to prevent sparking when they are not in use.
- * When using the 110-volt AC or 12-volt DC charger, pull on the plug, and never the cord, when disconnecting.
- * Do not recharge product battery with damaged chargers. Replace chargers immediately.
- * Do not attempt to remove or replace the battery used in this device. When the battery has reached the end of its useful lifetime, take the entire unit to a battery recycling facility.
- * Avoid dropping metal tools onto vehicle battery. It may spark or short circuit the battery or other electrical part that may cause short circuits or explosion.
- * For proper and safe operation of the 12-volt DC power accessory outlet, do not place anything into it except the plug of the accessory to be used.
- * Do not place anything into AC charging input socket except the provided plug from charger unit.
- * Remove metal personal jewelry, such as rings, bracelets, necklaces and watches, while working with a lead-acid battery. It can produce a short-circuit that may cause severe burns.
- * Never charge or jump-start a frozen battery.
- * Never allow clamps (positive & negative terminals) to touch together or to connect the same piece of metal to prevent short circuits and arcing.
- * Do not operate this device while wearing vinyl clothing. Static electricity may be generated when vinyl clothing is rubbed.
- * This product is not intended for use in the rain or temperatures above 130° F.
- * Use only the provided chargers, cables and clamps. Unauthorized parts may damage the unit.
- * This product has no consumer serviceable parts.
- * This product is not a toy. Keep out of the reach of children.
- * Keep battery terminals clean. Be careful to keep corrosion from coming in contact with eyes.
- * Do not open the case of the inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.
- * Do not let the cords of the jump-starter, inverter or attached appliances get wet.
- * Do not operate this unit in or around water. Water can damage the unit.
- * If operating the inverter in a moving vehicle, the unit should be secured to prevent it from shifting around while the vehicle is moving.
- * Do not connect the AC inverter directly to another AC power source.
- * Know the wattage requirements of your appliances. Use only those appliances which are 150 watts or less.
- * Do not use the AC inverter when jump-starting a vehicle.

Features

Power Status & Charge Level Indicator Light:

Indicates battery charge level. Pressing the charge level indicator button, the charge level indicator LED will light up to indicate battery charge level status. When this button is released, the charge level LED will turn off.

Charging Light Indicator:

Red color LED will illuminate while battery is charging. When charging is complete, the green color LED will be illuminated. The light will not turn off until the charging plug is removed.

Charging Levels:

Green LED indicates that the battery charge level is good. The unit will operate most 12-volt DC accessories at this level. Recharging to full may be required to jump-start a depleted or weak vehicle battery. Red LED indicates the power level is extremely low and that, immediate recharge is needed.

Convenient Charge Cords:

110-volt AC charger jack for home use and 12-volt DC charger jack for use on the road.

Two 12-volt DC Power Outlet with Overload Protection:

Provides power to most 12-volt DC accessories equipped with a male cigarette lighter plug. Circuits are protected with auto-reset overload protection.

Heavy-duty Booster Clamps:

200-amp rated battery clamps protected with non-conductive and corrosion resistant high impact polymer material.

Professional Quality #4 AWG Cables:

Color coded cables with extra thick oil resistant external cable insulation sheathing.

Booster Clamps Storage Holster:

Prevents accidental sparking when cables are not in use.

Overload Protection:

Internal auto-reset circuit breaker will automatically interrupt power if the current draw exceeds 20 amps. This feature prevents damage to the battery jumper's internal circuits. Internal circuit breaker will automatically reset after cool off period (approximately 10-25 minutes).

Low Voltage Alarm:

The inverter emits or beeping sound if the voltage of its power supply is depleted to 10.5 volts.

Auto Low Voltage Shut-Down:

The inverter automatically shuts-down if the voltage of its power supply is depleted to 10 volts.

Operating Instructions

Charging & Recharging

WARNING:

Do not overcharge this unit. Prior to charging unit, read and understand all instructions for this unit. Overcharging may result in damage to the unit.

- * This product may arrive partially charged from the manufacturer. It is recommended to fully charge the unit immediately after purchase and before using for the first time.
- * Fully recharge the unit when red charge indicator light is on.
- * The charging LED indicator will be illuminated while charging. When charging is completed, the green LED will stay illuminated. This light will not go out until the charging plug is removed.
- * Do not charge the unit for more than 24 hours continuously.
- * Make sure that any electrical outlet, located in a potentially wet or moist area, to be used to charge the unit is protected by a ground fault interrupt switch.
- * Do not charge the unit on a boat, boat ramp, or dock since the electrical cords and outlets used for charging could cause severe electrical shock if they get wet.
- * It is recommended that the unit is in an upright position while charging.

NOTE:

Make sure both cable clamps (positive and negative) are placed in their storage holsters when not in use.

Charging with 100-volt AC charger:



AC charger jack
or
DC charger jack

1. Insert AC charger plug into charger jack of unit.
2. Insert AC charger receptacle plug into 110-volt AC receptacle.
3. Fully charge the unit to the following: Initial & first time charge - 24 hours continuously; Recharge or between use - 15 hours continuously
4. When charging is complete, unplug the AC charger 110-volt receptacle plug then the AC charger from the charging jack on the unit.

Recharging with 12-volt DC charger:

1. Insert DC charger plug into charger jack of unit.
2. Insert DC charger accessory plug into vehicle cigarette lighter socket.
3. Fully charge the unit for 8 hours continuously, while the engine is running.
4. When charging is completed, unplug the DC charger accessory plug first and then the DC charger from the charging jack on the unit.

Jump-starting a Vehicle

WARNING:

Vehicles equipped with on-board computers may be affected if the engine battery is jump-started. Read your vehicle owner's manual before attempting to start the vehicle to determine if external starting assistance can be used. Failure to follow these instructions may cause damage or explosion. Use safety glasses to protect eyes while jump-starting a battery.

CAUTION:

Use extreme caution not to touch battery clamps together. Clamps are powered at all times. Place this unit on a flat and stable surface near the vehicle battery that is clear of all moving parts (fan blades, belts, and pulleys). Do not smoke, and use matches, lighters or open flame while attempting to jump-start a battery.

1. Turn off the vehicle ignition and all accessories (e.g. radios, lights, air conditioners and cellular phones).
2. Set the emergency brake and put vehicle's with automatic transmission in park position.
3. Determine the polarity of the vehicle's battery terminals. The positive (POS, P, +) battery terminal usually is larger in diameter than the negative (NEG, N, -) terminal. If you are unsure, you should refer to the vehicle's owner's manual.
4. Determine whether your vehicle uses a negative or positive grounded system:
Negative ground system - Negative battery terminal is grounded to chassis. Most vehicles use this system.
Positive grounded system - Positive battery terminal is grounded to chassis or any other part of the vehicle. If you are unsure, you should refer to vehicle owner's manual.
5. Access the clamps by pressing clamp handles inward. Pull the clamps downward and remove clamps from the holders in a downward angle. Never allow clamps (positive & negative terminals) to touch together or to contact the same piece of metal to prevent short circuits and arcing.
6. Follow instructions for a negative grounded system or positive grounded system as indicated below:
Negative Grounded System:
 - a. Securely connect the positive (+) red clamp to the positive (POS, P +) terminal of the vehicle battery or the remote positive (+) terminal if equipped.
 - b. Securely connect the negative (-) black clamp to the vehicle chassis, engine block or a non-moving metal part of the vehicle which is verified to be grounded. Do not clamp directly to negative battery terminal, carburetor, fuel lines, or sheet metal body parts.
 - c. See jump-starting step 7 to continue.
Positive Grounded System:
 - a. Securely connect the negative (-) black clamp to the negative (NEG, N -) ungrounded terminal of the vehicle battery.
 - b. Securely connect the positive (+) red clamp to the vehicle chassis, engine block or a non-moving metal part of the vehicle which is verified to be grounded. Do not clamp directly to positive battery terminal, carburetor, fuel lines, or sheet metal body parts.
 - c. See jump-starting step 7 to continue.
7. Allow 2 or 3 minutes of charging time. It is recommended to have a second person to assist holding the unit securely in place during the next steps.
8. Turn on the vehicle to attempt to start the engine. If the vehicle does not start after 4 to 5 seconds of engine cranking, then stop. Wait 3 to 4 minutes, then try again. Repeat several times until the vehicle starts.

CAUTION:

Excessive engine cranking can damage vehicle starter motor. If the engine turns, but fails to start after several attempts, other technical problems might be involved. Discontinue cranking the engine until the other problem is determined and corrected.

9. Standing as far away from the vehicle battery as is practical, disconnect the clamps in reverse sequence to connecting procedure:

For negative grounded systems, first disconnect negative (black) then positive (red) clamps.

For positive grounded systems, first disconnect positive (red) then negative (black) clamps.

Using the Air Compressor

WARNING:

Check item to be inflated for manufacturer's maximum recommended inflation pressure. Avoid over inflation. Most tires are properly inflated between 24-35 PSI. Some truck and bicycle tires require 40 PSI or more.

To inflate tires:

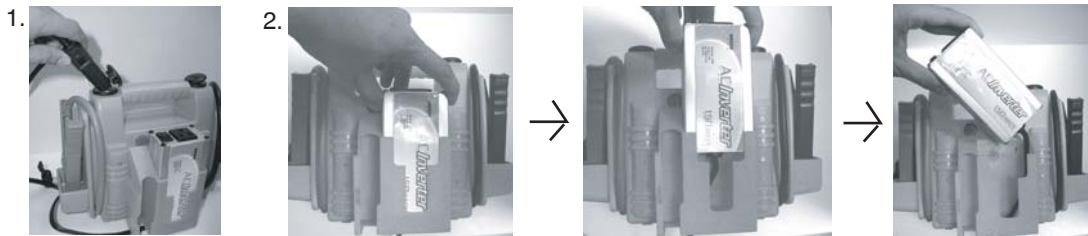
1. Remove valve cap from air valve stem.

WARNING:

Make sure that the battery's voltage does not exceed 15-volts DC. Connecting the inverter to a DC power source greater than 15-volts DC will void the warranty, and may damage the inverter.

Remove Inverter from Jump- Starter:

1. Unplug DC plug (if Plugged)
2. Pull Inverter out from the holder.

**Safety Precautions for Inverter:**

- * Do not open the case of the inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.
- * Do not let cord of the inverter or any appliance's cord get wet.
- * Do not operate this inverter in or around water. Water can damage the inverter, and water damage is not covered under warranty. Also, do not operate the inverter with wet hands.
- * Allow at least one inch of clearance around the inverter for air flow. Ensure the ventilation openings on the rear and bottom of the unit are not obstructed.
- * Do not connect the AC inverter directly to another AC power source. Damage may result, and such damage will void the inverter's warranty.
- * Know the wattage requirements of your appliance. Use only those appliance which are 150 watts or less.
- * Use common sense. This device produces power just like your wall outlets at home and should be treated seriously. Keep it away from children.
- * Wrongly plugging AC power outlet LINE / NEUTRAL will void the warranty.
- * If there is any thing wrong with the inverter, disconnect all of the power.

Maintenance of Inverter:

Very little maintenance is required to keep your inverter operating properly. You should clean the exterior of the unit periodically with a damp cloth to prevent accumulation of dust and dirt. At the same time, tighten the screws on the DC input terminals.

Measuring the output AC voltage of the inverter:

The output waveform of the AC inverter is a modified sine wave. If you choose to measure the AC output voltage, you must use a true RMS voltmeter. Using any other type of voltage measuring device will result in an AC voltage reading of 20 to 30 volts lower than the rated value. When using a true RMS voltmeter, you will get an accurate reading.

Operating a TV or TV/V CR combo with the inverter:

Picture tubes have a degaussing coil which uses a high initial surge of power to light up the screen from a "cold start". If the TV does not start up on the first try, switch the TV on every 2-3 seconds until the screen comes on. Some screens may take 2-5 tries before starting.

Storage

Unplug the AC inverter when not in use.

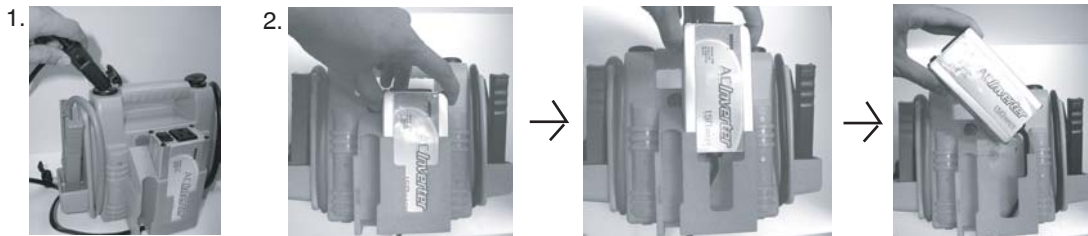
This unit may be stored in any position. Make sure the clamps are secure inside the booster cable storage covers. Store at room temperature. If not used for a prolonged period of time, recharge every 2 months in the winter and every month in the summer.

WARNING:

Make sure that the battery's voltage does not exceed 15-volts DC. Connecting the inverter to a DC power source greater than 15-volts DC will void the warranty, and may damage the inverter.

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This unit may be stored in any position. Make sure the clamps are secure inside the booster cable storage covers. Store at room temperature. If not used for a prolonged period of time, recharge every 2 months in the winter and every month in the summer.

Specifications

Inverter DC Input Voltage: 12-volts (10-volts to 15-volts)

Inverter AC Output Voltage: 115-volts

Inverter Output Frequency: 60 Hz

Inverter Output Waveform: modified sine wave

Inverter Continuous Output Power: 150 watts

Inverter Surge Power Capacity: 300 watts

Inverter Efficiency: over 90%

Inverter No Load Current: < 0.2 amp

Inverter Battery Low Alarm: DC 10.5-volts \pm 0.5-volts

Inverter battery Low Shutdown: DC 10.0-volts \pm 0.5-volts

Inverter Alarm and Thermal Shutdown: 55° C \pm 5° C; automatic recovery

Inverter AC Outlet Socket: North American type, 3-prong

Inverter Power Switch: DC input ON / OFF control

Inverter Dimensions (L X W X H): 133 mm X 108 mm X 46 mm

Inverter Net Weight: 0.46 kg

Power Supply Battery: 10 aH sealed lead acid, maintenance free, spill-proof, rechargeable

Power Supply DC Output: 12-volts nominal

Air Compressor: 275 PSI

Power Supply Boost Rate: 400 amp peak

Power Supply Circuit Breaker: 20 amp internal; With automatic reset, output power will be regained after 10 to 25 minute cool-off period.

Power Supply Charging Time: 24 hours for the first time charging with 110-volt AC charger; 15 hours to recharge with 110-volt AC charger; 8 hours to recharge with 12-volt DC charger

Net Weight: 11.65lb

Dimensions: 10.75" x 7" x 7.875"

Storage Temperature: Store in a cool dry area

Troubleshooting

Trouble	Cause	Remedy
Vehicle does not start	<ol style="list-style-type: none"> 1. Bad clamp connections. 2. Very low vehicle battery charge. 3. Low Battery Jumper charge. 4. Vehicle battery defective. 	<ol style="list-style-type: none"> 1. Rotate the clamps back & forth to make a solid and better connection. 2. Wait 3 to 4 minutes before starting vehicle again. 3. Recharge Battery Jumper to full charge. 4. Replace with new battery.
Device connected to DC Outlet does not operate	<ol style="list-style-type: none"> 1. No output power at Battery Jumper 12-volt DC outlets. 2. Bad connection to the 12-volt DC power outlets. 3 Low Battery Jumper charge. 4. Device fuse blown. 	<ol style="list-style-type: none"> 1. Internal circuit breaker is Off. Remove accessory plug from Battery Jumper DC outlet. Wait 10-25 minutes for automatic reset to regain power. 2. Insert accessory male plug properly into 12-Volt DC power outlets. 3 Recharge Battery Jumper to full charge. 4. Replace fuse.
AC accessory does not operate with Battery Jumper (using power inverter)	<ol style="list-style-type: none"> 1. Bad connection with inverter or accessory 2. Inadequate power or excessive power voltage drop. 3 Inverter malfunction. 4. Low Battery Jumper charge. 5. No power at Battery Jumper 12-volt DC outlet 6. Shuts down on overload 7. Thermal shutdown 8. Low-battery shutdown 	<ol style="list-style-type: none"> 1. Check connection of inverter to 12-volt DC power outlet and device to inverter 110-Volt power outlet. Clean Contact part thoroughly. 2. Check proper power inverter wattage range for given device. 3 Check inverter for power output also check inverters fuse. 4. Recharge Battery Jumper to full charge. 5. Internal circuit breaker is Off. Turn Off accessory power switch. Remove accessory cigarette lighter plug from Battery Jumper DC outlet. Wait 10-25 min for automatic reset to regain power. 6. Reduce the wattage of your load. 7. Under heavy loads for extended periods of time, the AC inverter will shut down to prevent damage from excess heat. Simply reduce your load and allow the inverter to cool down. 8. Recharge your battery and resume operation.

WARNING:

- * This device contains a sealed, non-spillable lead-acid battery and must be disposed properly when the device is discarded. Contact your local government recycling authority for proper disposal methods.
- * Use this product with 12-volt lead acid batteries only. Do not connect to 6-volt or 24-volt DC batteries.
- * Do not use with dry-cell batteries, as these batteries may burst and cause injury to person and damage personal property.
- * Working around lead-acid batteries may be dangerous. Lead-acid batteries generate explosive gases during normal charging and jump-starting operations.
- * Do not face battery. Stay as far as possible from vehicle battery being jumped when making final connection.
- * All lead-acid batteries (car, truck, and boat) produce hydrogen gas, which may violently explode in the presence of fire or sparks. Do not smoke, or use matches, lighters and open flame while near batteries.
- * Do not operator or place this device near flammable materials or any location, which accumulate flammable fumes.
- * Do not submerge this device in water.
- * Some late model vehicles have on-board computers that might be damaged if jump-started. Always read the vehicle owner's manual before attempting to jump-start the vehicle to determine if external starting assistance is acceptable.
- * Stay clear of fan blades, belts, pulleys and moving parts that can cause injury during battery jump-start.
- * Do not operate the inverter with wet hands. The AC voltage of the unit, while operated with wet hands, can create an electric shock hazard.
- * Do not use additional attachments other than those recommended or provided by manufacturer.
- * Do not exceed manufacturer recommended specifications.