Lighter Plug-in

12V-100W, DC to AC Inverter

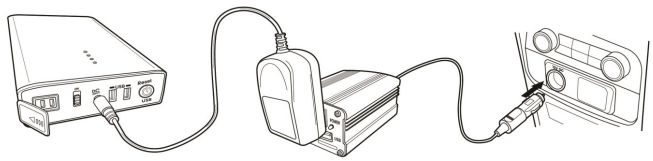
Manufactured for:

PORTABLE OUTLET

DC to AC Power Inverter User's Guide

Read this guide before installing or using the Power Inverter and save it for future reference.

This Inverter is an ultra compact and highly portable power system. It is the best way to recharge the Portable Outlet, in your car or boat. Simply plug the Power Inverter into your car's 12-volt lighter outlet. Then plug the Portable Outlet Power Supply into the Power Inverter, and plug the other end of the Portable Outlet into the DC input.



1 Placement Guidelines For optimum operation, the Power Inverter should be Placed on a flat surface such as the floor of a car. THE LOCATION SHOULD BE:

■**Dry -** Do not expose to water drip or spray.

■**Cool -** Operate only in ambient temperatures between 32 F(0C) and 104"F(40C) Keep away from heating vents.

■**Well ventilated -** Allow at least 2 inches(5 cm) clearance above and on all sides of the Power Inverter for proper cooling.

2 Using the Power Inverter

Indicators and Controls

■The Power Inverter receives its operating power through its DC Plug that fits standard vehicle cigarette lighter sockets and 12-volt power outlets.

■The green POWER light indicates AC power is present at the AC outlet and the Power

■The red FAULT light indicates inverter shutdown caused by low or high battery voltage, overload or excessive temperature.

2 Using the Power Inverter cont.

Inverter Operation

■Plug the Power Inverter DC Plug into a vehicle's cigarette lighter or 12-volt outlet.

■The green POWER light indicates AC power is available at the AC outlet.

■As the battery charge is used up, battery voltage begins to fall. When the Power Inverter senses the voltage at its DC input has dropped to 10.7 volts, an audio warning may be provided. When input voltage drops to 10.0 volts, it will automatically shut down to prevent battery damage. The red FAULT light illuminates.

■If it 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 may sound.

■Should a defective battery charging system cause the battery voltage to rise to dangerously high levels, it automatically shuts down. The red FAULT light will turn on.

CAUTION! Although the Power Inverter incorporates protection against overvoltage, it may still be damaged if the input voltage exceeds 16 volts.

■In the event of an overload, low battery voltage or overheating, the Power Inverter will automatically shut down. (See Section 5.)

Interference with Electronics Equipment

Generally, most AC products operate with the Power Inverter just as they would with household AC power.

Buzzing Sound in Audio Systems - Some inexpensive stereo systems and "boom boxes" have inadequate internal power supply filtering and" buzz" slightly when powered by the Power Inverter.

Battery Operating Time

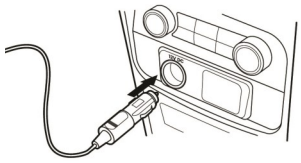
When using the Inverter, operating time will vary depending on the charge level of the battery, its capacity and the power level drawn by the particular AC load.

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 Power Inverter can operate while the engine is running, but the normal voltage drop that occurs during starting may trigger the Power Inverter's low voltage shutdown feature.

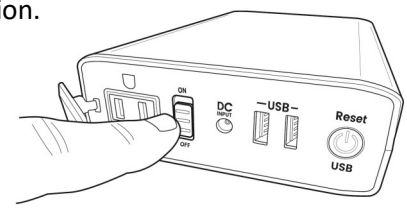
Because the Power Inverter draws less than 0.15 amps with the ON/OFF switch in the ON position and with no AC products connected, it has minimal impact on battery operating times.

3 Charging the Portable Outlet

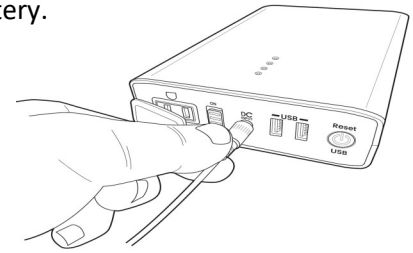
■Plug the Power Inverter DC Plug into a vehicle's cigarette lighter or 12-volt outlet.



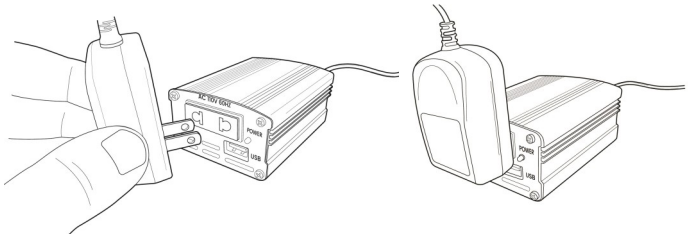
■Make sure the Portable Outlet power switch is in the OFF position.



■Plug the round end of the Portable Outlet 110 Volt power supply into the "DC Input" opening in the middle of the battery.



■Plug the power supply into the Power Inverter. **WARNING**: Only use the power supply provided with your Portable Outlet to charge your Portable Outlet.



The Power Inverter can also power a wide variety of household AC products, such as laptop computers, mobile phone charges, and even some brands of CPAP.

4 Specifications

Output voltage: 110 / 220 VAC
Output frequency: 50/60Hz+/-2 Hz
Output USB:DC 5.0V/0.5A max
Output waveform: pure sine wave 1 modified sine wave

Input voltage range: 10.0-15.0 VDC
Low battery alarm(nominal):10.4-11 .0V
Low battery shutdown point (nominal):9.7-10.3V
High battery shutdown point (nominal):14.5-15.5V

Battery drain with no AC load (at 12V input): <0.3A
Peak efficiency: >95%

5 WARNING & CAUTION

Incorrect installation or misuse of the Power Inverter may result in danger to the user or create a hazardous environment. We urge you to pay special attention to all CAUTION and WARNING statements. These may result in damage to the Power inverter or to other equipment, or may result in personal injury or loss of life.

WARNING! Shock hazard. Keep from children.

■ The Power Inverter generates the same potentially lethal AC power as a normal household wall outlet. Treat it with the same respect that you would any AC Outlet.

■Do not insert foreign objects into the Power inverter's AC outlet or vent openings.

■Do not expose Inverter to water, rain, snow or spray.

■Do not, under any circumstances, connect the Power Inverter to power utility AC distribution wiring.

Failure to follow the above instructions may result in personal injury or damage to the Power Inverter.

WARNING! Heated surface.

■The Power Inverter's housing may become uncomfortably warm, reaching 140°F (60°C) under extended high power operation.

■Ensure at least 2 inches(5 cm) of air space is maintained on all sides of the Power Inverter.

During operation, keep away from materials that may be affected by high temperatures.

CAUTION!

■Do not connect any AC product to the Power Inverter, whose neutral conductor is connected to ground.

■Do not expose the Power Inverter to temperatures in excess of 104°F(40°C)

■In the event of an overload, low battery voltage or overheating, the Inverter will automatically shut down.

6 Trouble Shooting

AC product will not operate, no inverter lights are on.

Possible Cause: Poor contact with lighter.
Suggestion: Press plug firmly into socket, or clean plug.

Possible Cause: 12-volt outlet may require ignition.
Suggestion: Turn key to accessory position.

Possible Cause: Lighter or 12-volt outlet fuse is blown.
Suggestion: Check vehicle fuses and replace blown fuse.

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