

# 150W Car Inverter

Model: DC2AC150 12V-150W

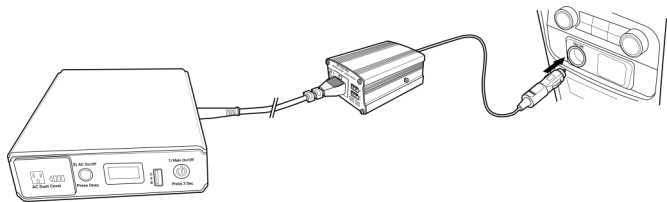
Manufactured for:

# 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 vehicle. Plug the power inverter into your vehicle's 12-volt lighter outlet. Next, plug the Portable Outlet power cord into the power inverter. Lastly, plug the modular end of the power cord into the AC input on the right side of the Portable Outlet.



**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 any liquid, drip or spray.
- **Cool** - Operate only in temperatures between 32°F (0°C) and 104°F (40°C). Keep away from heating vents.
- **Well ventilated** - Allow at least 2 inches (5cm) of open clearance above and on all sides of the power inverter for proper cooling and fan operation.

**2 Understanding the Power Inverter Indicators and Controls**

- The power inverter receives power through its DC plug that fits standard vehicle lighter sockets and 12-volt power outlets.
- The green POWER light indicates AC power is present at the AC outlet.
- The red FAULT light indicates inverter shutdown caused by low or high battery voltage, overload or excessive temperature.

### 3 Using the Power Inverter

#### Inverter Operation

- Do not start the car with the inverter plugged into the 12V lighter output. The normal voltage drop that occurs during vehicle engine start may trigger the power inverter's low voltage shutdown feature.
- Plug the power inverter DC plug into a vehicle's lighter or 12-volt outlet.
- The green POWER light indicates AC power is present at the AC outlet.
- As the vehicle's battery charge nears depletion, the battery voltage begins to fall. When the DC input drops to 10.7 volts, an audio warning from the inverter may sound. When input voltage drops to 10.0 volts, it will automatically shut down to prevent battery damage and the red FAULT light illuminates.
- If the inverter exceeds a safe operating temperature due to insufficient ventilation or a high temperature, it will automatically shut down. The red FAULT light will turn on and an audio warning may sound.

■ Should a defective battery charging system cause the battery voltage to rise to dangerously high levels, the inverter automatically shuts down and 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.

#### Interference with Electronic Equipment

Most small electronic devices operate with the power inverter just as they would with household AC power.

Buzzing sound in audio systems - Some stereo systems and portable radios have inadequate internal power supply filters and their audio may "buzz" when powered by the inverter.

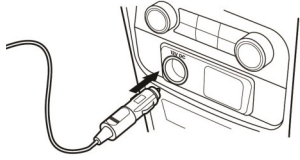
#### Affect on your vehicle's battery

When using the inverter to charge the Portable Outlet, charging time will vary depending on the charge level of the vehicle's battery, its capacity and the power drawn by the particular AC load.

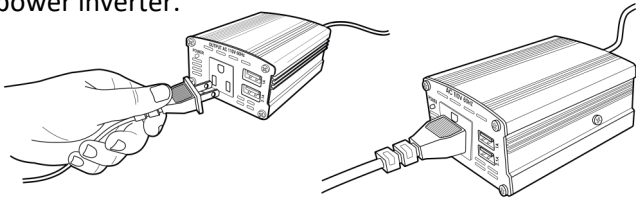
When using a vehicle battery as a power source, it is recommended to start the engine once every 30 minutes to recharge the battery before its capacity drops too low. The power inverter can operate while the engine is running.

## 4 Charging the Portable Outlet

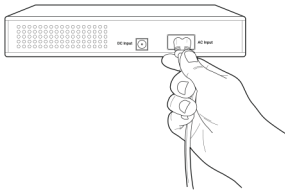
- First, plug the power inverter DC plug into a vehicle's lighter or 12-volt outlet.



- Next, plug the Portable Outlet power cord into the power inverter.



- Lastly, plug the modular end of the power cord into the AC input on the right side of the Portable Outlet.



The power inverter can also power a wide variety of small electronic products, such as laptop computers, mobile phone charges, and even some brands of CPAP.

## 5 Specifications

Input Voltage: 12V DC

AC Output Voltage: 110V AC

AC Output Frequency: 60Hz

USB Outputs : 5V/1A and 5V/2.1A

Output Waveform: Modified Sine Wave

Operating Temperature: 32°F (0°C) and 104°F (40°C)

Size: 4.6" x 2.4" x 1.4"

Weight: 0.45 lbs.

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## 6 WARNING & CAUTION

Incorrect installation or misuse of the power inverter may result in danger to the user, others or create a hazardous environment. We strongly recommend that you pay close attention to all CAUTION and WARNING statements. These may result in damage to the power inverter and to other equipment, and may result in personal injury or loss of life.



**WARNING!** - Shock hazard. Keep away 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, spray, or liquids of any kind.

- Do not, under any circumstances, use the power inverter to power exposed or bare wiring.



**WARNING!** Heated surface.

- The power inverter's housing may become hot to the touch, reaching 140°F (60°C) under extended, high power operation.

- Ensure at least 2 inches (5 cm) of open air space is maintained on all sides and above 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 operate 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.

## 7 Troubleshooting

**AC product will not operate; no inverter lights are on.**

**Possible Cause:** Poor contact with vehicle lighter output.

**Suggestion:** Check plug is firmly in vehicle's 12V socket.

**Possible Cause:** Vehicle's outlet may require ignition on.

**Suggestion:** Set vehicle's ignition to accessory mode.

**Possible Cause:** Lighter or 12-volt outlet fuse is blown.

**Suggestion:** Check vehicle fuses and replace blown fuse.