

909[®]

INSTRUCTION MANUAL
HT8710-AUOXY



**100 Watt
Power Inverter + USB**

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Warranty

For full details please visit us at www.909.com

Introduction

Your new 909 appliance will more than satisfy your expectations. It has been manufactured under stringent 909 Quality Standards to meet superior performance criteria.

You will find your new appliance easy and safe to operate, and, with proper care, it will give you many years of dependable service.

CAUTION. Carefully read through this entire Instruction Manual before using your new 909 appliance. Take special care to heed the Cautions and Warnings.

Your 909 appliance has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

Specifications

Model:	HT8710-AUOXY
Input voltage:	13.8 Vdc, 8 A
Output voltage:	230-240 Vac, 50 Hz
Power output Vac:	100 W (continuous)
Wave form:	Modified sine wave
USB power output:	5 Vdc, 500 mA
Idling consumption:	0.2 A
Size:	170 x 80 x 60 mm
Weight:	Approx. 0.3 kg.
Fuses:	6 x 32 mm 12 A / 250 V
Protective features:	Integrated low-voltage, short-circuit, overload and high-temperature protection.

General safety warnings and instructions

Read all instructions

Please read the entire instruction manual before using the product and save it for future reference. We reserve the right for any errors in text or images and any necessary changes made to technical data. If you have any questions regarding technical problems please contact Customer Services.

Safety

WARNING! The power inverter can only be connected to a 12 V cigarette lighter socket with a (+) positive centre.

- The power inverter must be protected from direct sunlight, rain and moisture.
- Never open the inverter yourself, repairs should be carried out by qualified personal using original spare parts, otherwise the product could become dangerous to use.
- Always disconnect the cigarette lighter plug before servicing or carrying out any adjustments to connected load appliances.
- Keep the inverter out of children's reach; remember that the voltage from it is as dangerous as that from a regular wall socket.
- If the mains lead or other cables on the inverter are damaged they have to be replaced. Use only original replacement parts from the supplier.
- This product can be used in vehicles but should never be mounted in the engine compartment.
- If you connect an auxiliary socket to the 12 V battery, the connection cables between the battery and the socket must be kept short, max 2 metres.
- Never use longer leads than needed between the inverter and the load appliance, the longer the lead the higher the voltage drop.
- Check the polarity from the cigarette lighter socket before connecting the inverter. The power socket must have (+) centre-positive polarity.
- Reversed connection can damage the inverter, and is not covered by the guarantee.
- Do not have any load devices connected to the inverter when you are connecting or removing the plug from the cigarette lighter socket.
- Make sure the lead and plug are undamaged before using the inverter.
- The inverter must not be covered. Make sure the ventilation holes are kept open and unblocked.
- Never use the inverter as a power supply for medical equipment or other sensitive and vital equipment. Read the device's instruction manual for power supply requirements in regards to sine waves, voltage variations, earthing, etc. Consult with a tradesman if you are uncertain.
- For indoor use only.
- This product is not intended for powering products with high energy consumption or products which give off heat such as hair dryers, microwave ovens, toasters, etc.
- Keep an eye on the temperature of the battery charger that is connected to the inverter. If it becomes hot after about 10 minutes the charger should then only be connected to your normal residential power grid.
- Never connect the inverter to a 240 V power grid or other inverter.
- Never use the inverter near flammable liquids or gas. Sparks may be produced when connecting or disconnecting the inverter.
- The inverter may not be immersed in liquids or exposed to rain or spray.

Know your product

1. 230-240 Vac power outlet
2. On/Off Switch
3. 12 Vdc input plug
4. USB power outlet
5. Power/fault Indicator lamp



Product description

- 12 V DC to 230 - 240V AC power inverter. Connects to your car's 12 V cigarette lighter socket.
- Allows 230 - 240V devices (TVs, digital receivers, stereos, etc.) to be used in your car, boat, caravan, etc. Can also be connected to battery chargers for laptops, digital cameras, drill/drivers, etc.
- USB outlet for charging digital cameras, MP3 players, etc. (5 V, max. 500 mA).
- Built-in overload protection and low-voltage protection.
- Rated for 100 W of continuous power.

Use

1. Connection:

- A. Plug the inverter into the car's cigarette lighter outlet (12V).
- B. Push the on/off switch to switch the inverter on.
- C. The indicator lamp will be blue when the inverter is switched on and correctly connected.
- D. Finally: Connect the load device's plug to the outlet on the inverter.

2. Switching off:

- A. Push the on/off switch to switch the inverter off.
 - B. The indicator lamp will go off.
 - C. Disconnect the load device from the inverter's outlet.
 - D. Finally: Disconnect the inverter from the car's cigarette lighter outlet.
3. Place the inverter in an appropriate location, well protected from rain and moisture and with good air circulation so the inverter does not overheat. Also, do not place the inverter in direct sunlight or near heat sources.
4. Both the USB port and 230 - 240 VAC socket can be used at the same time.

5. The inverter can manage 100 W of continuous power. Make sure that the load devices have a lower power consumption than 100 W.

All electrical products have a rating for power consumption listed in A or W.

Example: If power consumption is given in A you would calculate W as follows: A rating of 2.2 A (240 V AC) = power in W: $2.2 \times 240 = 528 \text{ W}$

6. Press the power switch to switch off the inverter.

N.B. Pull the plug out when the inverter is not in use.

N.B. Make sure that the vehicle's battery is fully charged when using the inverter without the engine turned on. Make sure that you do not drain the battery so much as to cause starting problems.

N.B. The USB port on the inverter does not support data transfer. It is only an outlet providing 5 V/500 mA DC for charging/powering USB devices.

WARNING! Do not connect any sensitive devices which need sine wave AC voltage (the inverter produces a modified square waveform). Check the product's instruction manual or consult a tradesman if you are at all uncertain.

The inverter's protective features

- Low voltage protection: Low voltage is not damaging to the inverter but can damage the connected load device. The inverter shuts off when battery voltage goes below 10.5 (+/-0.5) V DC.
- Overvoltage/Surge protection: The inverter shuts off when battery voltage exceeds 16 (+/-0.5) V DC.
- Short-circuit protection: The inverter shuts off automatically whenever a short-circuit is detected.
- Overload protection: The inverter shuts off automatically when overloaded (power output over 100 W).
- Overheating protection: The inverter shuts off automatically when the temperature becomes too high. Turn off the connected load device and let the inverter cool for about 15 minutes.

- Reset the protective features by: Shutting off the inverter and starting it again.

Note!

- Disconnect the inverter from the 12V car's cigarette lighter outlet before starting the vehicle or before recharging the battery.
- Disconnect the inverter when it is not in use.
- Discharged batteries are sensitive to frost, recharge batteries before storing them.

Care and maintenance

Cleaning:

Unplug the inverter from the power outlet and wipe it with a soft cloth and maybe even a little mild detergent.

Never use abrasive cleaning agents or solvents.

Troubleshooting

- If the inverter is switched on but does not have output voltage from the VAC or USB outlets then in all probability the inverter's protective functions have tripped. The indicator light will be red if a problem has occurred. Reset the protective features when you have addressed the problem. Shut off the inverter and start it again.
- Make sure that your car's cigarette lighter socket outputs 12 V (certain cars must have the ignition switch in the on or accessory position in order to receive power from the socket).
- **Check the fuse in the inverter's plug:**
 1. Unscrew the ridged part of the plug to access the fuse while keeping track of the small components (centre pin, spring and plastic washer).

N.B. All the small components must be replaced in exactly the same position otherwise the inverter will not function.

2. Replace the fuse only with one of the same rating (12 A/250 V).

Disposal

Follow local ordinances when disposing of this product.

If you are unsure about how to dispose of this product contact your municipality.

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