

# Smart AC Inverter 100 USB

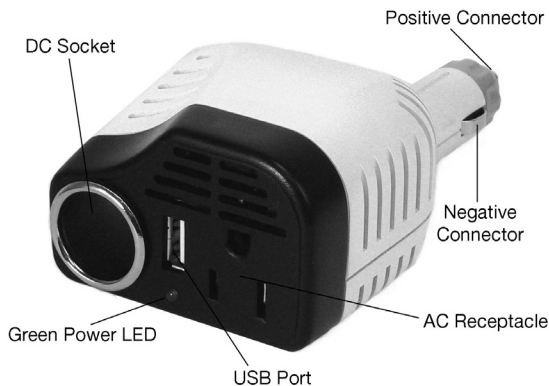


User's Manual

Thank you for purchasing the Smart AC Inverter 100 USB by Wagan Tech. With normal care and proper treatment, it will provide years of reliable service.

Your Smart AC Inverter converts 12V DC battery power to 110V AC household electrical power so you can operate products from your car, truck, boat, SUV or RV. It can also charge USB and DC operated devices.

**Important:** Before using your smart AC Inverter 100 USB, read and understand this user's manual. Please save these instructions containing important safety instructions about this unit.



All inverter functions require connecting the Inverter's DC plug into a powered cigarette lighter or 12 volt accessory outlet. The green LED will light up when the inverter is powered. For operations more than 2 hours, make sure the car engine is running.

### AC Power Outlet

1. Power the inverter as described earlier.
2. Plug an AC product into the AC receptacle and turn it on. Ensure your product draws 90 watts or less of continuous AC power.
3. Operate your device normally, as described by the manufacturer.

### 5 Volt DC USB Port

The USB Port can continuously power and recharge MP3 players, cell phones, and other devices.

1. Power the inverter as described earlier.
2. Insert the USB plug of the device you want to power or recharge into the USB Power Port of the inverter.
3. Operate your device normally, as described by the manufacturer.

### 12 Volt DC Power Outlet

Use the 12 Volt DC Outlet for powering or recharging 12 Volt DC devices (up to 10 Amps) while using one of the other power outlets.

1. Power the inverter as described earlier.
2. Insert the appliance's 12 Volt DC plug into the Inverter's 12 Volt DC Power Outlet.
3. Operate the appliance normally, as described by the manufacturer

Note: To avoid discharging the AC, DC, or USB powered device's battery, always remove the inverter from the lighter socket when not in use.

**WARNING! Shock hazard**

The Smart AC Power Inverter generates the same AC power as a normal household wall outlet.

- Do not open (the parts inside can not be replaced or serviced).
- Do not insert foreign objects into the outlet or USB port.
- Do not expose to water, rain, or snow.
- Do not connect to power utility AC distribution wiring.

\*Failure to follow any of the above precautions may result in personal injury and/or damage to the inverter.

**WARNING! Heated surface**

The outer case of the Inverter may become warm, reaching 65°C (150°F) under extended high power operations. During these kinds of operations, keep the inverter away from materials that may be affected by high temperatures.

**CAUTION**

- Refer to the battery manufacturer's safety instructions for proper battery installation and operation.
- Neutral floating: do not connect any AC, DC, or USB products whose neutral conductor is connected to the ground to the inverter.
- The output of the inverter is Modified Sine Wave. Some battery chargers for power tools and appliances may not work properly. Please, contact the manufacturer for the appliances before using the inverter.

**Troubleshooting**

**Problem:** AC, DC, USB product does not operate; green light is not illuminated.

Probable cause	Suggested solution
AC product connected is rated at more than 90 watts; overload shutdown occurs.	Use product with a power rating of less than 90 watts
High starting surge has caused overload shutdown even though AC product connected is rated at less than 200 watts.	Product exceeds inverter's surge compatibility. Use a product with starting surge power of less than 200 watts
Lighter socket or 12 volt outlet may require the vehicle's ignition to be switched on.	Turn the ignition key to accessory position
Poor contact with lighter socket or 12 volt outlet.	Press inverter firmly into the lighter socket. Make sure the socket is clean.
Car battery is discharged	Recharge the car's battery
Fuse blown by heavy load.	Replace the 15A slow blow fuse by unscrewing the fitting in the positive connector

**Problem:** Buzzing sound in audio systems

**Probable Cause:** Inexpensive stereo systems have an inadequate internal power supply filtering which causes a buzzing sound. A system with a high quality filter is the only solution.

*For additional technical support please e-mail [customerservice@wagan.com](mailto:customerservice@wagan.com)*

### Specifications

Continuous Power .....	90 Watts for 2 hours
Peak Surge Power .....	200 Watts for 1 cycle
AC Output Voltage .....	115V $\pm$ 10%
AC Output Frequency .....	60 Hz $\pm$ 2 Hz
AC Output .....	Modified Sine Wave
DC Input Voltage Range .....	12V DC (11-15V DC)
Maximum 12V DC Output .....	10 Amps
USB Output .....	DC 5V up to 0.5 Amp
Optimum Efficiency .....	85%
Battery Drain with No AC Load .....	<0.2 amps DC (At 12V Input)
Low Battery Shutdown .....	Yes (10V $\pm$ 0.3V DC)
Fuse .....	15A
Thermal Protection Cooling Fan .....	No
Input Short Circuit Protection .....	Yes
AC Receptacles .....	Single
DC Socket .....	Single
USB Port .....	Yes
Net Weight .....	0.19kgs



## WAGAN Corp. Limited Warranty

All WAGAN Corporation products are warranted to the original purchaser of this product.

**Warranty Duration:** This product is warranted to the original purchaser for a period of one (1) Year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the event of a defective item, please contact WAGAN Corporation at (800) 231-5806 to obtain a Returned Merchandise Authorization number (RMA#), and return instructions. Each item returned will require a separate RMA#. After you have received the RMA# and the return instructions from WAGAN Corporation, please follow the instructions and send the item with PREPAID SHIPPING, along with all of the required documentation, a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replace or repair the defective part.

A Returned Merchandise Authorization number (RMA#) is REQUIRED when sending in any defective item. WAGAN Corporation is not responsible for any item(s) returned without an official Returned Merchandise Authorization number. The item(s) must be returned with prepaid shipping. WAGAN Corporation is not responsible for any shipping charges incurred in returning the item(s) back to the company for repair or replacement. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and does not extend to any units which have been used in violation of written instructions furnished.

**Warranty Disclaimers:** This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.

**Warranty Performance:** During the above one (1) Year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) Year warranty period. ©2008 WAGAN Corp. Updated August 2008

**Wagan Corp.**

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