

URBANWORX

200W DC TO AC **POWER INVERTER**

UX200DCAC



INSTRUCTION MANUAL

Please read this manual carefully before using, and keep it for future reference.

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GENERAL SAFETY

Read this manual thoroughly before you start using the product.

Store this manual, the completed warranty card, your receipt and the product packaging.

The safety precautions instructions reduces the risk of fire, electric shock and injury when correctly complied to.

Please follow all instructions and take notice of all warnings.

IMPORTANT INFORMATION

- Do not expose this product to rain or moisture.
- Do not temper or change or modify the product in any way.
- Only use Accessories outlined and recommended by the manufacturer.
- Please do not expose the product to splashing or water contact

- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product. Dry location use only.
- No naked flame source, such as candles, should be placed on the product.
- This appliance is not to be used by persons (including children) with reduced physical, sensor or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
Children being supervised not to play with the appliance.

GENERAL SAFETY (CONT.)

- Use the product properly to avoid electric shock.
- Keep the product away from high temperature, high humidity, high salinity and corrosive environments.
- Do not expose the product to direct sunlight.
- Do not dispose of the product in fire.
- Do not place or store the product together with bulk metal objects.
- Do not disassemble or reassemble the product randomly.
- Do not intentionally knock, impact, pierce or drop the product.
- Do not cover the product with towels, clothing and other items, so as not to affect heat dissipation.
- Do not connect the product with a charger for a long time.
- Children should be supervised to ensure that they do not play with the product.
- Please scrap and recycle the product in accordance with the regulations.
- DO NOT use of this device in life support situations where failure of the device can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness.
- DO NOT use this device in the presence of a flammable anesthetic mixture in the air, oxygen or nitrous oxide, and also not near flammable materials, fumes or gasses.
- Since this product requires adequate ventilation during operation, Do not block fan or cooling vents and do not cover the device. Do not operate near car heating vents or in direct sunlight.
- Keep device dry at all times and disconnect when not in use.
- DO NOT plug a surge protector, line conditioner or UPS system into the device. IF you attach AC extension cords, use the heaviest practical gauge.
- Before connecting battery charger or adaptor, check its manual to make sure specs of the device (including output waveform) fall within the recommendations of the external battery charger or adaptor.

Please make sure upon positioning this product, the place is:

- Not wet or damp and Well ventilated
- Away from direct sunlight or heaters.
- Away from splashes or food.
- Protected from excessive dust or grease.
- Do not place the Product near heat sources such as radiators, stoves or other audio visual equipment that produce heat.

GENERAL SAFETY (CONT.)

Before first use

- Unpack the product and accessories and ensure all parts of the product are undamaged and in good working order.
- Plastic wrapping can be a suffocation hazard for babies and young children, so ensure all packaging materials are out of their reach and disposed of safely.
- Unwind the power cord to its full length and inspect it for damage before each use. Do not use the product if it or its cord has been damaged or is not working properly. In case of damage, contact our after sales support line for advice on examination, repair or return of the damaged product.

DETERMINE BATTERY CAPACITY

Battery type and battery size strongly affect the performance. Therefore, you need to identify the type of loads your inverter will be powering and how much you will be using them between charges. Once you know how much power you are using, you can determine how much battery capacity you need. We recommend that you purchase as much battery capacity as possible.

CAUTION: Risk of Inverter Damage

The Inverter must only be connect to a car or other vehicle that has nominal output of 12V. DO NOT connect to a 6/24V battery.

PRODUCT OVERVIEW



SUITABLE FOR:



CAMPING



TRUCK



COACH



RV



CARAVAN

OPERATION

This product has 1x AC Output 220V-240V ~ 50Hz, 200W Max.

RATING: DC 12-13.8V

AC OUTPUT: 220-240V ~ 50Hz, 200W Max.

DC Output: USB-A: DC 5V 2.4A,

USB-C: DC 5V/3A, DC 9V/1.5A, DC 12V/1A

BEFORE USING THE POWER INVERTER DETERMINE YOUR EQUIPMENT'S TOTAL WATTS!

- Do not connect more watt than the output power (maximum continuous watt) of the device.
- Determine Total Wattage required. Watt rating are usually listed in equipment manuals or on nameplates (rating labels). If your equipment is rated in Amp, multiply that number times the AC utility voltage to determine the watts.
(example: A drill requires 1.5A, $0.5A \times 230 \text{ Volt} = 115\text{Watt}$)
- Remember the vehicles battery will be discharged when the vehicle is not running.
- To determine the DC battery amperes required, divide the total wattage required (from above) by the nominal battery voltage to determine the DC amps required. ($115\text{Watt} / 12V = 9.58A \text{ DC}$).
- To estimate battery amp-hours required - Multiply the DC amps required from above by the number of hours you estimate you will operate your equipment exclusively from battery power before you have to recharge your battery with utility or generator supplied AC power. Compensate for inefficiency by multiplying this number by 1.2. This will give you a rough estimate of how many amp-hours of battery power (from one or several batteries) you should connect to your Inverter.
Example: $9.58 \text{ amp-hours} / 40A \text{ inverter rating} = 0.24h \text{ recharge}$

RESETTING THE INVERTER

1. Unplug the inverter and all devices
2. Turn the inverter back on by plugging into a 12V socket.
3. Before devices are reconnected, verify the total wattage of the devices to ensure they are less than the rating of the inverter.

OPERATION (CONT.)

HOW TO USE:

1. Plug in the inverter. A red LED light will turn on indicator that the inverter is receiving power.

- Turn off the Inverter - unplug the product.

When you have confirmed that the appliance is to be operated is turned off, plug an appliance cord into one of the 230V AC outlets on the front panel of the product.

- Plug in
- Turn the appliance ON.

To disconnect, reverse the above procedure.

NOTE: If you are going to operate several loads from the inverter, turn them on separately after you have turned the inverter on. This will ensure that the inverter does not have to deliver the starting current for all loads at once.

USING THE INVERTER TO OPERATE A TV OR AUDIO DEVICE:

- The inverter is shielded and filtered to minimize signal interference. Despite this, some interference may occur with your television picture, especially with weak signals.

Below are some suggestions to try and improve reception:

1. Make sure the television antenna produces a clear signal under normal operating condition (example: at home plugged into a wall power socket outlet). Also, ensure that the antenna cable is adequately shielded and of good quality.
2. Try adjusting the position of the inverter, antenna cables and television power cord. Add an extension cord from the inverter to the TV so as to isolate its power cord and antenna cables from the 12V power source.

PROTECTIVE FEATURES:

LOW VOLTAGE ALARM (RED LED ON INVERTER)

This state is not harmful to the inverter, but could damage the power source. The inverter shuts off when the input voltage drops to 10.2 volts and the LED will turn to a red colour at the same time. When ample power is supplied, the Inverter may then be turned back on.

OVER-VOLTAGE PROTECTION (RED LED ON INVERTER)

The inverter will automatically shut down when the input voltage exceeds $15.8 \pm 0.3V$ Volts DC.

OVERLOAD PROTECTION (RED LED ON INVERTER)

The inverter will automatically shut down if the continuous draw exceeds its maximum wattage rating, disconnect the device(s) to bring the inverter output down to an acceptable level. If you continue to use the inverter at or near the maximum output, it will eventually overheat and shut down. If you exceed the maximum inverter output, the inverter will automatically shut down. The red fault indicator light will turn on.

TEMPERATURE PROTECTION

The inverter is equipped with a cooling fan. The cooling fan will turn on and off as required to cool the inverter if needed. If the temperature reaches approximately 80°C the inverter will shut down automatically. Turn off the inverter and allow it to cool for a minimum of 15 minutes. Before starting up again, verify the total wattage of the devices being powered.

TROUBLESHOOTING

Troubleshooting

If your products stops working, contact our call centre at info@ayonz.com.

Do not attempt to open and repair the unit yourself.

Problem	Situation	Action
No power on	Battery voltage below 10 Voltage	Recharge or replace battery
	Equipment being operated draws too much power	Allow Inverter to cool down. Ensure there's adequate ventilation around the Inverter. Ensure that load is no more than it's maximum rating for continuous operation
Low voltage alarm turns on immediately	The input voltage at input of the Inverter needs to be raised	Recharge/Replace battery or add additional batteries. Run the vehicle engine when using a 12V DC plug
Low voltage alarm is on all the time	Power battery condition with voltage drops Replace battery	
Low power output	Battery condition may be poor Recharge or replace a battery	
Inverter does not work after	The Internal protection has disabled the inverter	Contact vendor company for help

SPECIFICATIONS

INPUT VOLTAGE (DC)	12-13.8VDC
PERMANENT CURRENT	15A
INPUT CURRENT MAX	18A
OUTPUT POWER	200W (maximum, continuously), 400W (peak)
OUTPUT VOLTAGE USB (DC)	5V, on USB A and up to 12V on USB C
OUTPUT VOLTAGE (AC) / AC FREQUENCY	220-240V ~ 50Hz, 200W
OUTPUT WAVEFORM	MSW [Modified Sine Wave]
NOMINAL LOAD EFFICIENCY	85%
LOW BATTERY VOLTAGE	at ~10.2V
USB OUTPUT PORTS (DC)	put ports (DC) 5,4A (share)
AC OUTPUT	Australia socket outlet
DIMENSIONS	175(w) x 60 (d) x 50 (h) mm
WEIGHTS	Net: 0.33 kg / Gross: 0.43 kg

CUSTOMER HELPLINE:
info@ayonz.com

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