

## Norstar LLD-200

# Norstar LLD 200 Watts Step Down Converter User Manual

Model: LLD-200 | Brand: Norstar

## 1. PRODUCT OVERVIEW

The Norstar LLD 200 Watts Step Down Converter is designed to allow the use of small, low-wattage American electrical items (rated for 110/120 VAC) in regions with 220/240 VAC power outlets. This converter steps down the voltage from 220/240 VAC to 110/120 VAC, ensuring compatibility for your devices. It features an LED power indicator and fuse protection for safety.

### Key Features:

- 200 Watts maximum power output.
- Converts 220/240 VAC 50 Hz input to 110/120 VAC 50/60 Hz output.
- Integrated 4-foot power cord.
- LED power indication.
- Easily replaceable fuse for protection.
- Suitable for devices such as game consoles (e.g., Xbox360, PS3, PS2, Nintendo Wii), camcorders, and camera chargers.



Image 1.1: The Norstar LLD 200 Watts Step Down Converter. This image displays the compact design of the converter, featuring a standard US-style outlet on the front panel, an LED power indicator, and the attached power cord.

## 2. SAFETY INFORMATION

- **Read all instructions before use.** Failure to follow instructions may result in electric shock, fire, or serious injury.
- **Indoor use only.** Do not expose the converter to rain or moisture.
- **Ensure proper ventilation.** Do not cover the converter or place it in an enclosed space during operation.
- **Do not exceed the maximum wattage.** The converter is rated for 200 Watts. Connecting devices that draw more than 200 Watts can damage the converter and the connected device, and poses a fire risk. Always check the wattage requirements of your device before connecting.
- **Keep out of reach of children.**
- **Do not disassemble the converter.** Refer servicing to qualified personnel.
- **Unplug when not in use.** Always disconnect the converter from the wall outlet when not in use.
- **Check voltage compatibility.** This is a step-down converter (220/240V to 110/120V). Do not use it with 110/120V input to power 220/240V devices, as this will damage your device.
- **Fuse Protection:** The converter includes a fuse for protection against overloads. If the converter stops working, check and replace the fuse if necessary (refer to Maintenance section).

## 3. SETUP

1. **Unpack the Converter:** Carefully remove the converter from its packaging.
2. **Inspect for Damage:** Before use, inspect the converter for any visible damage. Do not use if damaged.
3. **Placement:** Place the converter on a stable, flat surface in a well-ventilated area, away from heat sources and direct sunlight.
4. **Verify Device Wattage:** Before plugging in your device, confirm that its wattage requirement does not exceed 200 Watts. This information is usually found on the device's label or in its manual.
5. **Connect Device:** Plug your 110/120 VAC device into the output socket of the Norstar LLD converter.
6. **Connect to Power Outlet:** Plug the converter's attached 4-foot power cord into a 220/240 VAC wall outlet.

## 4. OPERATING INSTRUCTIONS

1. After completing the setup steps, ensure both your device and the converter are securely plugged in.
2. The LED indicator on the converter should illuminate, indicating that power is flowing to the unit.
3. Turn on your connected 110/120 VAC device. It should now operate normally.
4. If the device does not power on, refer to the Troubleshooting section.
5. When finished using your device, turn it off and then unplug the converter from the wall outlet.

**Important Note:** This converter is designed for continuous use within its rated wattage. However, for optimal lifespan and safety, avoid operating at maximum load for extended periods without adequate ventilation.

## 5. MAINTENANCE

- **Cleaning:** Disconnect the converter from the power outlet before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the converter in a cool, dry place when not in use.
- **Fuse Replacement:** The Norstar LLD converter features an easily replaceable fuse. If the converter stops providing power, the fuse may have blown due to an overload.
  - a. Unplug the converter from the wall outlet and disconnect any devices.
  - b. Locate the fuse holder, typically a small cap on the side or back of the unit.
  - c. Unscrew or pry open the fuse holder.
  - d. Remove the old fuse and replace it with a new fuse of the exact same type and rating (e.g., 2A 250V). Using an incorrect fuse can be dangerous.
  - e. Securely close the fuse holder.
  - f. Reconnect and test the converter.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Converter has no power (LED off).	Not plugged in correctly. Wall outlet has no power. Blown fuse.	Ensure the converter is securely plugged into a live 220/240 VAC outlet. Test the wall outlet with another device. Check and replace the fuse as described in the Maintenance section.
Connected device does not power on.	Device not plugged in correctly. Device requires more than 200 Watts. Device is faulty.	Ensure the device is securely plugged into the converter's output. Verify the device's wattage. If it exceeds 200W, do not use it with this converter. Test the device with a known working power source (if available and safe to do so).
Converter feels hot during operation.	Operating near maximum load. Insufficient ventilation.	Ensure the device's wattage is well within the 200W limit. Place the converter in a well-ventilated area, ensuring no obstructions block airflow. If overheating persists, discontinue use and contact support.

## 7. SPECIFICATIONS

<b>Model Number</b>	LLD-200
<b>Brand</b>	Norstar
<b>Input Voltage</b>	220/240 VAC, 50 Hz
<b>Output Voltage</b>	110/120 VAC, 50/60 Hz
<b>Maximum Power</b>	200 Watts
<b>Product Dimensions</b>	5.5 x 3.5 x 3.5 inches
<b>Item Weight</b>	1.25 pounds (approximately 0.57 kg)
<b>Power Cord Length</b>	4 feet (approximately 1.2 meters)
<b>Protection</b>	Fuse Protection
<b>UPC</b>	788679295001

## 8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Norstar LLD 200 Watts Step Down Converter, please contact the manufacturer directly or refer to the retailer's return policy where the product was purchased. Keep your proof of purchase for any warranty claims.

For further assistance, you may visit the Norstar brand page on Amazon: [Norstar Brand Page](#)