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› Simran AC-2000 Step Up/Down Voltage Converter Transformer User Manual

## Simran AC-2000

# Simran AC-2000 Step Up/Down Voltage Converter Transformer User Manual

Model: AC-2000 | Brand: Simran

## INTRODUCTION

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This manual provides essential information for the safe and effective operation of your Simran AC-2000 Step Up/Down Voltage Converter Transformer. This heavy-duty unit is designed for continuous use, allowing you to convert single-phase 110V/120V to 220V/240V, or 220V/240V to 110V/120V, making it suitable for worldwide use with various electronic devices, household appliances, and heavy-duty machinery.

## Key Features

- CE Certified 2000 Watt Heavy-Duty Continuous Use Voltage Converter Transformer.
- Operates in both 110V/120V and 220V/240V countries with 50Hz / 60Hz.
- Step Up 110V/120V to 220V/240V or Step Down 220V/240V to 110V/120V (Input voltage switch located on the rear of the unit).
- Four outlets on the front: two for 110V and two for 220V.
- On/Off power switch with indicator lamp.
- Wired with a 3-pin USA plug.
- 220V outlet features a USA patented universal output socket (excluding large South African plugs).
- Fuse protected, includes 2 spare fuses and a grounded European Shucko plug adapter.

## IMPORTANT SAFETY INFORMATION

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Read all instructions carefully before using the converter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

## General Precautions

- Ensure the converter is placed on a stable, flat surface.
- Do not expose the unit to rain or moisture.

- Do not operate the unit if the power cord or plug is damaged.
- Keep out of reach of children.
- Ensure proper ventilation around the unit; do not block vents.
- This unit is fuse protected. Always use the correct type and rating of fuse.

## Wattage Considerations

Always ensure the total wattage of the appliances connected to the converter does not exceed the converter's maximum wattage rating (2000 Watts for this model). It is recommended to leave at least a 100% slack for the Voltage Converter Transformer. For devices with power surges like TVs, Xbox, and PS3 consoles, the power surge margin can be 3 times the wattage rating. For heating appliances, laser printers, and power tools that spike when turned on, you may need a converter that is at least 3 to 4 times their rated wattage.

## PRODUCT OVERVIEW

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The Simran AC-2000 features a robust metal casing and a user-friendly front panel for easy operation.

### Front Panel Layout



Figure 1: Simran AC-2000 Front Panel

This image displays the front panel of the Simran AC-2000 voltage converter. Visible components include:

- Two 110V output sockets (standard North American type).
- Two 220V output sockets (one universal type, one European Shucko type).
- A red "POWER SOURCE" indicator light.
- An "ON/OFF" rocker switch with an integrated circuit breaker.
- The Simran brand logo and "AC-2000W" model designation.

- A sturdy carrying handle on top.
- The unit's power cord with a 3-pin USA plug.
- Two spare fuses are shown next to the unit.

## Rear Panel

The rear panel of the unit contains the crucial input voltage selector switch (110V/220V). Ensure this switch is set correctly according to your local power supply before connecting the unit.

## SETUP INSTRUCTIONS

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### Initial Connection

1. **Verify Input Voltage:** Locate the input voltage selector switch on the rear of the AC-2000 unit. Set this switch to match the voltage of your local power supply (e.g., 110V/120V for North America, 220V/240V for Europe/Asia).
2. **Connect Power Cord:** Plug the converter's power cord into a grounded wall outlet.
3. **Power On:** Flip the "ON/OFF" switch on the front panel to the "ON" position. The red "POWER SOURCE" indicator light should illuminate.

### Using the European Shucko Plug Adapter

If you are in a region using European Shucko outlets, attach the provided grounded European Shucko plug adapter to the converter's power cord before plugging it into the wall outlet.

## OPERATING YOUR VOLTAGE CONVERTER

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### Step-Up Operation (110V/120V to 220V/240V)

1. Ensure the input voltage selector switch on the rear is set to 110V/120V.
2. Plug your 220V/240V appliance into one of the 220V output sockets on the front panel.
3. Turn on the converter, then turn on your appliance.

### Step-Down Operation (220V/240V to 110V/120V)

1. Ensure the input voltage selector switch on the rear is set to 220V/240V.
2. Plug your 110V/120V appliance into one of the 110V output sockets on the front panel.
3. Turn on the converter, then turn on your appliance.

### Important Operating Notes

- Always connect the converter to the power source before connecting your appliance to the converter.
- Always turn off the appliance before turning off the converter.
- Do not overload the converter. Refer to the "Wattage Considerations" in the Safety Information section.
- The converter does not change the frequency (Hz). If your appliance is sensitive to frequency, ensure compatibility.

## MAINTENANCE

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### Fuse Replacement

The AC-2000 is fuse protected. If the unit stops functioning, the fuse may have blown due to an overload or short circuit.

1. Disconnect the converter from the power source and all connected appliances.
2. Locate the fuse holder (typically on the rear or side panel).
3. Carefully remove the blown fuse.
4. Insert one of the provided spare fuses (or a fuse of the exact same type and rating).
5. Reconnect and test the unit. If the fuse blows again immediately, there may be an internal fault or a persistent overload issue.

## Cleaning

To clean the unit, wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or abrasive materials. Ensure the unit is unplugged before cleaning.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Converter does not power on.	No power from wall outlet.	Check wall outlet with another device.
Converter does not power on.	Input voltage selector switch is incorrect.	Verify the switch on the rear is set to match your local power supply (110V/120V or 220V/240V).
Converter does not power on.	Blown fuse.	Replace the fuse with a spare (see Maintenance section).
Appliance does not work.	Appliance wattage exceeds converter capacity.	Disconnect the appliance. Ensure total wattage is within the 2000W limit, considering surge requirements.
Appliance does not work.	Appliance requires specific frequency (Hz).	The converter does not change frequency. Ensure your appliance is compatible with the local frequency (50Hz or 60Hz).
Unit feels warm during operation.	Normal operation.	Some warmth is normal, especially under load. Ensure adequate ventilation. If excessively hot, disconnect and check wattage.

If troubleshooting steps do not resolve the issue, contact Simran customer support.

## PRODUCT SPECIFICATIONS

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Feature	Detail
Model	AC-2000
Brand	Simran
Wattage	2000 Watts
Input Voltage	110V/120V or 220V/240V (selectable)
Output Voltage	110V/120V and 220V/240V
Frequency	50Hz / 60Hz compatible (does not convert frequency)
Item Weight	22.9 Pounds (approx. 10.39 kg)
Product Dimensions	12 x 9.5 x 8 inches (approx. 30.5 x 24.1 x 20.3 cm)
Certifications	CE Certified
Plug Format	Type A (USA grounded)
Included Accessories	2 Spare Fuses, Grounded European Shucko Plug Adapter

## WARRANTY AND CUSTOMER SUPPORT

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### Warranty Information

This Simran AC-2000 Voltage Converter Transformer comes with a 30-day warranty from the date of purchase. This warranty covers manufacturing defects. Please retain your proof of purchase for any warranty claims.

### Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Simran customer support. Refer to the product packaging or the manufacturer's official website for contact details.