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› Simran AC-1000 Voltage Power Converter User Manual

## Simran AC-1000

# Simran AC-1000 Voltage Power Converter User Manual

Model: AC-1000 | Wattage: 1000 Watt

## 1. INTRODUCTION

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The Simran AC-1000 is a heavy-duty continuous use voltage converter transformer designed for worldwide application. This versatile unit can either step up single phase 110V/120V to 220V/240V, or step down 220V/240V to 110V/120V. It is compatible with both 50Hz and 60Hz electrical systems, making it ideal for various electronics, household appliances, and heavy-duty machinery globally.

This manual provides essential information for the safe and efficient operation of your Simran AC-1000 converter, including setup, usage guidelines, maintenance, and troubleshooting tips.

## 2. SAFETY INFORMATION

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Please read and understand all safety instructions before operating the Simran AC-1000. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Power Slack:** Always ensure at least a 100 percent wattage slack for the voltage converter transformer. For example, if your appliance is 500 watts, use a converter with at least 1000 watts capacity.
- **Surge Protection:** Appliances with high power surges upon startup, such as TVs, gaming consoles (Xbox, PS3), heating appliances, laser printers, and power tools, require a converter with 3 to 4 times their rated wattage to accommodate initial power spikes.
- **Single Phase Power:** This transformer is designed for single phase 220V power. It is not intended for 2-Phase 220V/240V power, which is common in some regions of the USA where two hot legs of 110V combine to make 220V.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings.
- **Environment:** Use the converter in a dry environment. Avoid exposure to moisture, rain, or extreme temperatures.
- **Grounding:** The unit is equipped with a grounded USA plug. Always connect it to a properly grounded outlet.
- **Overload:** Do not overload the converter beyond its rated wattage. This can cause damage to the unit and connected appliances.

### 3. PRODUCT FEATURES

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- **Wattage:** 1000 Watt heavy-duty continuous use.
- **Dual Functionality:** Steps up 110V/120V to 220V/240V or steps down 220V/240V to 110V/120V.
- **Frequency Compatibility:** Works with both 50Hz and 60Hz.
- **Output Outlets:**
  - One (1) 110V/120V outlet.
  - Two (2) 220V/240V outlets: one USA patented universal output socket (accepts most plug types except large South African plugs) and one European Shucko output socket.
- **Power Control:** On/Off power switch with an indicator lamp.
- **Input Plug:** Hardwired with a grounded USA plug.
- **Accessories:** Includes two (2) spare fuses and a grounded European Shucko plug adapter for use in Europe and Asia.
- **Construction:** Durable metal casing.
- **Certifications:** CE Certified.



This image displays the front view of the Simran AC-1000 Voltage Power Converter. It features a black metal casing with a silver handle on top. The front panel includes a 110V output receptacle, a 220V European Shucko output socket, and a 220V universal output socket. A red indicator lamp and an ON/OFF switch are visible on the right side. The model number 'AC-1000W' and 'SIMRAN' brand logo are prominently displayed. A grounded USA plug attached to a power cord extends from the left, and two spare fuses are shown in the foreground.

### 4. SETUP

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1. **Unpack:** Carefully remove the converter from its packaging. Check for any visible damage.
2. **Placement:** Place the converter on a stable, flat surface with adequate ventilation around all sides. Do not place it on carpet or in an enclosed space.

3. **Select Input Voltage:** Locate the input voltage selector switch on the **rear** of the unit. Set this switch to match the voltage of the wall outlet you will be plugging the converter into (e.g., 110V/120V for North America, 220V/240V for Europe/Asia). **Incorrect selection can damage the unit and connected appliances.**
4. **Connect Converter to Power:** Plug the converter's hardwired power cord into a properly grounded wall outlet of the selected input voltage. If using in Europe or Asia, attach the provided European Shucko plug adapter to the USA plug before connecting to the wall outlet.
5. **Connect Appliance:** With the converter's power switch in the "OFF" position, plug your appliance into the appropriate output socket on the front of the converter.
  - For 110V/120V appliances (when stepping down from 220V/240V input), use the 110V outlet.
  - For 220V/240V appliances (when stepping up from 110V/120V input), use either of the 220V outlets (universal or Shucko).

## 5. OPERATING INSTRUCTIONS

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1. **Power On:** Once the converter and your appliance are properly connected and the input voltage is correctly selected, flip the "ON/OFF" switch on the front panel to the "ON" position. The indicator lamp will illuminate.
2. **Appliance Operation:** Turn on your connected appliance.
3. **Power Off:** To turn off the system, first turn off your appliance, then flip the converter's "ON/OFF" switch to the "OFF" position.
4. **Disconnecting:** Unplug the appliance from the converter, then unplug the converter from the wall outlet.

**Important Note on Frequency:** This transformer converts voltage but does not change the frequency (Hz). If your appliance requires a specific frequency (e.g., 50Hz in Europe, 60Hz in USA), and the source frequency does not match, devices that rely on precise timing (like clocks) or motor speed may be affected. Most modern electronic devices are designed to operate across a range of frequencies (e.g., 50/60Hz).

## 6. MAINTENANCE

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- **Cleaning:** Disconnect the converter from all power sources before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Fuse Replacement:** The Simran AC-1000 is fuse protected. If the unit stops functioning, the fuse may have blown due to an overload or short circuit.
  - a. Disconnect the converter from the wall outlet.
  - b. Locate the fuse holder (typically on the rear or side of the unit).
  - c. Carefully remove the old fuse.
  - d. Insert one of the provided spare fuses. Ensure the replacement fuse has the correct rating.
  - e. Securely close the fuse holder.
  - f. Reconnect the converter and test. If the fuse blows again, consult the troubleshooting section or contact customer support.
- **Storage:** When not in use for extended periods, store the converter in a cool, dry place, away from direct sunlight and moisture.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Converter does not power on (no indicator light).	No power from wall outlet. Input voltage selector switch set incorrectly. Blown fuse. Power switch is OFF.	Check wall outlet with another device. Verify the input voltage switch on the rear of the unit matches your wall outlet voltage. Replace the fuse (refer to Maintenance section). Ensure the ON/OFF switch is in the ON position.
Appliance does not work when connected.	Appliance not plugged into correct output. Appliance requires more wattage than converter provides. Appliance is faulty.	Ensure appliance is plugged into the correct 110V or 220V output. Verify appliance wattage is within converter's capacity, accounting for surge requirements. Test appliance directly if possible.
Converter feels warm during operation.	Normal operation for transformers.	Ensure adequate ventilation. If it becomes excessively hot to touch, disconnect immediately and check for overload.
Audible humming or buzzing noise.	Normal operational noise for some transformers.	A slight hum is normal. If the noise is excessively loud or accompanied by other issues, disconnect and inspect.

## 8. SPECIFICATIONS

<b>Brand</b>	Simran
<b>Model Number</b>	AC-1000
<b>Wattage</b>	1000 Watts
<b>Voltage</b>	110V/120V/220V/240V (Step Up/Down)
<b>Frequency</b>	50Hz / 60Hz Compatible
<b>Item Weight</b>	Approximately 14.75 pounds (6.69 kg)
<b>Product Dimensions</b>	12 x 10.5 x 9 inches (30.5 x 26.7 x 22.9 cm)
<b>Manufacturer</b>	VCT Electronics
<b>UPC</b>	810128010801

## 9. WARRANTY AND SUPPORT

**Warranty:** The Simran AC-1000 Voltage Power Converter comes with a 30-day warranty from the date of purchase. This warranty covers manufacturing defects under normal use.

**Customer Support:** For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Simran customer support. Refer to the product packaging or the retailer's website for the most current contact information.

Please have your model number (AC-1000) and purchase information ready when contacting support.

