Simran AR-1000

Simran AR-1000 1000W Step Up/Down Voltage Converter with Regulator

Model: AR-1000 | Brand: Simran

Overview Safety Features Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Simran AR-1000 is a 1000-watt automatic voltage transformer with a built-in voltage regulator. This device is designed for worldwide use, capable of converting 110/120V to 220/240V, or 220/240V to 110/120V, making it suitable for various international power requirements. It also stabilizes fluctuating input voltages to provide a consistent output, protecting your electronic devices.



Figure 1: Front view of the Simran AR-1000 Voltage Converter, showing the power switch, indicator lamp, analog output voltage meter, and multiple outlets.

2. Important Safety Instructions

- **Wattage Capacity:** Always ensure the total wattage of connected appliances does not exceed the converter's rated capacity (1000W). For appliances with motors, heating elements, or laser printers, which have high startup (spike) wattage, it is recommended to use a converter with at least 3-4 times their continuous wattage rating.
- **Ventilation:** Place the converter in a well-ventilated area. Do not block ventilation openings.
- **Moisture:** Do not expose the unit to rain or moisture.
- **Grounding:** Ensure the unit is properly grounded.
- **Indoor Use Only:** This device is intended for indoor use only.
- **Children:** Keep out of reach of children.
- **Power Cord:** Do not operate with a damaged power cord or plug.

3. Key Features

- **Dual Voltage Conversion:** Converts 110/120V to 220/240V or 220/240V to 110/120V.
- **Built-in Voltage Regulator:** Stabilizes input voltage fluctuations (AC 75V-130V or 180V-260V) to a stable output (AC 110V±4% or AC 220V±4%).
- **Universal Compatibility:** Compatible with both 50Hz and 60Hz frequencies.
- **Multiple Outlets:** Features three outlets on the front: two universal outlets for 220V (accepts plugs from most countries) and one 110V outlet (accepts 3 or 2 prong US plugs and 2 prong Euro/Asian plugs).
- **Output Voltage Meter:** An analog meter on the front displays the exact output voltage.
- **Safety Features:** Equipped with an On/Off switch with an indicator lamp and fuse protection (includes two extra

fuses).

- **Durable Construction:** Heavy-duty metal casing for enhanced durability.
- **CE Certified:** Meets European safety standards.

4. Setup Guide

4.1 Unpacking

Carefully remove the Simran AR-1000 from its packaging. Inspect the unit for any signs of damage. Ensure all accessories, including the two extra fuses and any provided plug adapters, are present.

4.2 Voltage Selection

Before plugging in the converter, locate the **Input Voltage Selector Switch** on the back of the unit. This switch determines whether the unit will step up or step down the voltage.

- **To Step Down (220/240V to 110/120V):** If your wall outlet provides 220/240V and you want to power a 110/120V appliance, set the switch to **220V**. This is for using US appliances abroad.
- **To Step Up (110/120V to 220/240V):** If your wall outlet provides 110/120V and you want to power a 220/240V appliance, set the switch to **110V**. This is for using foreign appliances in the US/Canada.

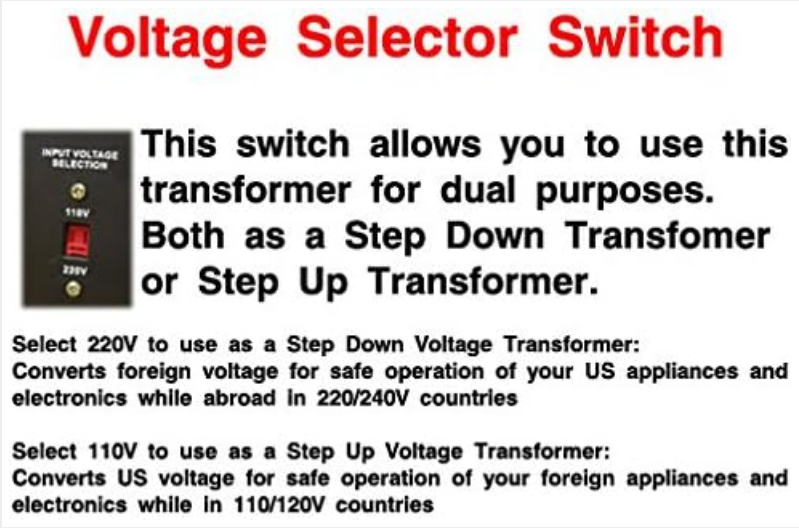


Figure 2: Rear view detail showing the Input Voltage Selector Switch, allowing selection between 110V and 220V input.

Caution: Ensure the switch is set correctly for your input voltage before plugging the unit into a wall outlet. Incorrect selection can damage the converter and connected appliances.

4.3 Connecting Appliances

After setting the input voltage, plug your appliance(s) into the appropriate output outlets on the front of the converter. The unit features:

- **Two Universal 220V Outlets:** For appliances requiring 220V.
- **One 110V Outlet:** For appliances requiring 110V.

Finally, plug the converter's power cord into the wall outlet. The power cord is hard-wired with a European Schuko plug, and typically includes adapters for US/Canadian outlets.



Figure 3: Visual representation of voltage step-up (110V to 220V) and step-down (220V to 110V) functionality.

5. Operating Instructions

5.1 Powering On

Once the converter is plugged into the wall and your appliances are connected, press the On/Off switch located on the front panel. The indicator lamp will illuminate, signifying that the unit is powered on and ready for use.

5.2 Monitoring Output Voltage

The analog meter on the front of the unit displays the exact output voltage. This allows you to confirm that your appliances are receiving the correct and stable voltage.

6. Maintenance

- **Cleaning:** Disconnect the unit from the power source before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or aerosols.
- **Fuse Replacement:** The converter is fuse-protected. If the unit stops functioning, check the fuse. Refer to the fuse compartment on the unit (usually on the back or side) for instructions on how to replace it. Always replace with a fuse of the same type and rating. Two extra fuses are included with your purchase.
- **Storage:** When not in use for extended periods, store the converter in a cool, dry place away from direct sunlight and moisture.

7. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power from wall outlet, power switch off, blown fuse.	Check wall outlet, ensure power switch is ON, replace fuse if blown.
Output voltage is incorrect or unstable.	Incorrect input voltage selection, appliance overload.	Verify Input Voltage Selector Switch setting. Reduce connected appliance load.
Unit makes unusual noise or smells.	Overload, internal fault.	Immediately disconnect from power. Reduce load. If problem persists, discontinue use and contact support.
Connected appliance does not work.	Appliance fault, incorrect outlet used, converter fault.	Test appliance directly if possible. Ensure appliance is plugged into the correct voltage outlet on the converter.

8. Technical Specifications

Model Number	AR-1000
Power Rating	1000 Watts
Input Voltage	AC 75V-130V or 180V-260V (selectable)
Output Voltage	AC 110V ±4% or AC 220V ±4%
Frequency	50Hz / 60Hz compatible
Outlets	2 x Universal 220V, 1 x US 110V
Item Weight	14.99 pounds (approx. 6.8 kg)
Product Dimensions	12.36 x 11.81 x 8.19 inches (approx. 31.4 x 30 x 20.8 cm)
Certifications	CE Certified
UPC	810128010047

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your Simran AR-1000 Voltage Converter, please refer to the warranty card included with your product or visit the official Simran website. Keep your purchase receipt as proof of purchase for any warranty claims.
For further assistance, you may contact Simran customer service directly through their official channels.

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