

Simran THG-3000

Simran THG-3000 3000 Watt Step Down Transformer User Manual

Your guide to safe and efficient operation of your Simran THG-3000 Voltage Converter.

1. INTRODUCTION

The Simran THG-3000 is a heavy-duty step-down transformer designed to convert single-phase 220/240V electricity to 110/120V. This allows you to use appliances and electronics designed for 110/120V in regions with 220/240V power supply. It is compatible with both 50Hz and 60Hz frequencies and features a maximum capacity of 3000 watts for continuous use.

2. SAFETY PRECAUTIONS

Please read and understand all safety instructions before operating the transformer. Failure to follow these instructions may result in electric shock, fire, or damage to the unit or connected devices.

- Always ensure the transformer is placed on a stable, flat, and dry surface.
- Do not expose the unit to moisture, rain, or extreme temperatures.
- Ensure adequate ventilation around the transformer to prevent overheating. Do not block air vents.
- Never exceed the maximum wattage capacity of the transformer (3000 watts).
- Always connect the transformer to a grounded power outlet.
- Disconnect the transformer from the power source before cleaning or performing any maintenance.
- Keep out of reach of children.

3. SETUP INSTRUCTIONS

3.1 Unpacking

1. Carefully remove the Simran THG-3000 transformer from its packaging.
2. Inspect the unit for any signs of damage during transit. If damaged, do not use and contact customer support.
3. Ensure all components are present: the transformer unit and two extra fuses.

3.2 Placement

1. Place the transformer in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
2. Ensure there is at least 6 inches (15 cm) of clear space around all sides of the unit for proper airflow.
3. The unit is heavy (approximately 29.7 pounds); place it on a sturdy surface that can support its weight.

3.3 Initial Connection

The transformer comes with a hard-wired European Shucko plug, suitable for 220/240V outlets in Europe and Asia.

1. Ensure the transformer's power switch is in the 'OFF' position.
2. Plug the transformer's input cord into a grounded 220/240V wall outlet.
3. Connect your 110/120V appliance(s) to the grounded outlets on the front of the transformer. The outlets accept 3-prong or 2-prong US plugs, and 2-prong Euro/Asian plugs.
4. Verify that the total wattage of all connected appliances does not exceed the transformer's 3000-watt capacity.



Image: The Simran THG-3000 3000 Watt Step Down Transformer. This image displays the black transformer unit with its front panel showing two grounded outlets labeled 'SIMRAN OUTPUT 110V' and 'CE' marking. A European Shucko plug is visible, connected to the unit's power cord. Two spare glass fuses are also shown in the foreground. The unit features metal carrying handles on the top and sides.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

1. After connecting your appliances, switch the transformer's power button to the 'ON' position. An indicator lamp will illuminate.

2. To turn off, switch the power button to the 'OFF' position.
3. For extended periods of non-use, unplug the transformer from the wall outlet.

4.2 Wattage Considerations

It is crucial to understand the wattage requirements of your appliances to prevent overloading the transformer. Always leave a safety margin for power surges or spikes.

- For most electronic devices (e.g., TVs, computer monitors), allow at least a 100% margin. This means if your device is 500 watts, use a transformer rated for at least 1000 watts.
- For power tools, laser printers, and heating appliances (e.g., coffee makers, toasters, microwaves, halogen/fluorescent bulbs), a margin of 3-4 times the rated wattage is recommended due to high initial power draw. For example, a 500-watt heating appliance may require a 1500-2000 watt transformer.
- Using a transformer with a significantly higher wattage rating than your device's continuous draw is generally safer and extends the life of both the transformer and your appliance.

5. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your Simran THG-3000 transformer.

- **Cleaning:** Disconnect the unit from all power sources. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris.
- **Storage:** When not in use, store the transformer in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Fuse Replacement:** The unit is fuse-protected and comes with two extra fuses. If the unit stops working, check the fuse located on the side of the unit. To replace, unscrew the fuse cap, remove the old fuse, insert a new fuse of the same rating, and screw the cap back on. Always use fuses with the correct specifications.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Transformer not powering on.	No power from wall outlet; Blown fuse; Power switch off.	Check wall outlet with another device; Replace fuse; Ensure power switch is ON.
Connected appliance not working.	Appliance not plugged in correctly; Appliance faulty; Transformer overloaded.	Ensure secure connection; Test appliance directly if possible; Reduce total wattage of connected devices.
Transformer is overheating.	Overloaded; Insufficient ventilation.	Disconnect appliances and allow to cool; Reduce load; Ensure proper ventilation.
Humming noise from unit.	Normal operation for auto transformers.	A slight hum is normal. If excessively loud, ensure unit is not overloaded.

7. TECHNICAL SPECIFICATIONS

Model: THG-3000

Maximum Capacity: 3000 Watts

Input Voltage: 220V / 240V (Single Phase)

Output Voltage: 110V / 120V

Frequency: 50Hz / 60Hz Compatible

Outlets: Two grounded outlets (accepts 3 or 2 prong US / 2 prong Euro and Asian plugs)

Input Plug: Hard-wired European Shucko plug

Protection: Fuse Protected (comes with 2 extra fuses)

Certifications: CE Approved and Certified

Material: Metal

Dimensions: 11 x 9.5 x 8.5 inches

Item Weight: 29.7 pounds

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Simran website. Keep your purchase receipt as proof of purchase for any warranty claims.

If you encounter any issues not covered in this manual, please contact Simran customer service for assistance.