

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [CAARLA](#) /

› [CAARLA Electronic Transformer User Manual - AC220V 160W for G4 Halogen Lamps](#)

CAARLA CAARLA

CAARLA Electronic Transformer User Manual

Model: CAARLA (220V 160W) for G4 Halogen Lamps

1. PRODUCT OVERVIEW

The CAARLA Electronic Transformer is designed to convert AC input voltage to a stable AC 12V output, specifically for G4 Halogen Lamps. This unit features a compact design, stable voltage output, and operates silently. It is suitable for various low-voltage lighting applications in commercial and residential settings.

Key Features:

- **Stable Performance:** Optimized circuit design ensures full power delivery and stable voltage output.
- **Silent Operation:** Designed to operate without generating noise.
- **Compact Design:** Ultra-thin and lightweight shell saves installation space.
- **Easy Installation:** Pre-terminated with cables for quick and simple setup.
- **Safety Protections:** Includes overvoltage, short circuit, overtemperature, and overload protection functions.



Figure 1: CAARLA Electronic Transformer. This image displays the compact black casing of the electronic transformer with its label visible, indicating its function and specifications. The input and output wires are visible at the ends.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this electronic transformer.

Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Qualified Personnel:** Installation and wiring should only be performed by a qualified electrician or competent person.
- **Power Disconnection:** Always disconnect power at the circuit breaker before installing, servicing, or removing the transformer.
- **Proper Voltage:** Ensure the input voltage (AC220-240V) matches the transformer's specifications.
- **Load Compatibility:** This transformer is designed exclusively for G4 Halogen Lamps. Do not connect other types of lamps or devices.
- **Wattage Matching:** The total wattage of connected lamps must not exceed the transformer's maximum output (160W for this model). It is recommended that the transformer's power be 5-20W greater than the total wattage of the lamps to extend service life and optimize brightness.
- **Ventilation:** Ensure adequate ventilation around the transformer to prevent overheating. Do not cover the unit.
- **Environmental Conditions:** Do not install in damp or wet locations. Avoid exposure to direct sunlight or extreme temperatures.
- **Secure Connections:** All wire connections must be secure and properly insulated to prevent short circuits.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of your electronic transformer:

1. **Prepare Wiring:** Ensure the main power supply is turned off at the circuit breaker before beginning any wiring.
2. **Identify Wires:**
 - **Input Wires (Red):** Connect to the AC 220-240V 50Hz/60Hz power supply.
 - **Output Wires (Black and White):** Connect to the 12V G4 Halogen Lamps.
3. **Connect Input:** Connect the red input wires of the transformer to your AC 220-240V power source. Ensure connections are tight and insulated.
4. **Connect Output:** Connect the black and white output wires of the transformer to your G4 Halogen Lamps. Ensure the total wattage of the connected lamps does not exceed 160W.
5. **Secure Placement:** Mount the transformer in a secure location, ensuring it is not covered and has adequate airflow.
6. **Restore Power:** Once all connections are secure and verified, restore power at the circuit breaker.

Note: The transformer is designed for low voltage lamps. For optimal performance and lamp longevity, the transformer's wattage should ideally be 5-20W higher than the total wattage of the connected lamps.

4. OPERATING INSTRUCTIONS

Once properly installed, the CAARLA Electronic Transformer operates automatically. It converts the incoming AC voltage to the required 12V AC for your G4 Halogen Lamps.

- **Power On/Off:** Control the lighting by switching the main power supply to the transformer on or off.
- **Lamp Compatibility:** This transformer is exclusively for G4 Halogen Lamps. Using other lamp types may cause damage to the transformer or the lamps.

- **Load Management:** Avoid overloading the transformer by connecting lamps that exceed its 160W capacity. Overloading can lead to reduced performance and premature failure.

5. MAINTENANCE

The CAARLA Electronic Transformer requires minimal maintenance. Follow these guidelines to ensure long-term performance:

- **Regular Inspection:** Periodically check the transformer and its wiring for any signs of damage, loose connections, or overheating.
- **Cleaning:** If necessary, gently wipe the exterior of the transformer with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the area around the transformer remains clear of obstructions to allow for proper heat dissipation.
- **Power Disconnection:** Always disconnect power before performing any maintenance or inspection.

6. TROUBLESHOOTING

If you encounter issues with your electronic transformer, refer to the following troubleshooting tips:

- **No Light Output:**
 - Check if the main power supply is on.
 - Verify all wiring connections are secure.
 - Ensure the G4 Halogen Lamps are functional and correctly installed.
 - Confirm the total wattage of the lamps does not exceed the transformer's capacity.
- **Dim or Flickering Lights:**
 - The total wattage of the lamps might be too low for the transformer, or too close to its minimum load.
 - Ensure the transformer's wattage is appropriately matched to the lamp load (ideally 5-20W higher than total lamp wattage).
 - Check for loose connections.
- **Transformer Overheating:**
 - Ensure adequate ventilation around the unit.
 - Verify the total lamp wattage does not exceed the transformer's maximum capacity.
- **Incorrect Multimeter Reading:**

Important: The output voltage of this electronic transformer **cannot be measured directly by a multimeter without a load connected**. You will get an incorrect reading. Always connect the G4 Halogen Lamps before measuring the output or assessing functionality.

7. SPECIFICATIONS

Specification	Detail
Model	CAARLA

Specification	Detail
Input Voltage	AC 220-240V, 50Hz/60Hz
Output Voltage	AC 12V
Rated Power	160W
Compatibility	G4 Halogen Lamps only
Dimensions (Approx.)	1.18 x 0.79 x 0.39 inches (Package Dimensions)
Item Weight	5.3 ounces (150 Grams)
Features	Full power, stable voltage output, no noise, compact design, overvoltage, short circuit, overtemperature, and overload protection.

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your CAARLA Electronic Transformer, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may refer to the official CAARLA website or contact their customer service department.