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› Rolux SET-120F Electronic Halogen Transformer User Manual

## Rolux SET-120F

# Rolux SET-120F Electronic Halogen Transformer User Manual

Model: SET-120F

## INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Rolux SET-120F Electronic Halogen Transformer. Please read these instructions thoroughly before installation and retain them for future reference.

## SAFETY INSTRUCTIONS

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- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- **Power Disconnection:** Always disconnect power at the main circuit breaker before installing, servicing, or cleaning the transformer.
- **Voltage Compatibility:** Ensure the input voltage (230-240V AC) matches your electrical supply.
- **Load Compatibility:** Do not exceed the maximum load of 120 watts and ensure the minimum load of 35 watts is met.
- **Ventilation:** Ensure adequate ventilation around the transformer to prevent overheating.
- **Environmental Conditions:** Do not expose the transformer to moisture, extreme temperatures, or corrosive environments.
- **Dimmability:** This transformer is dimmable with a phase section dimmer. Ensure the dimmer is compatible with electronic transformers.

## PRODUCT FEATURES

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- **Model:** SET-120F
- **Type:** Electronic Transformer for Low Voltage (LV) Halogen Lamps
- **Input Voltage:** 230-240V AC, 50Hz

- **Output Voltage:** 11.6V AC (RMS)
- **Power Range:** 35-120 Watts
- **Dimmable:** Compatible with phase section dimmers.
- **Compact Design:** Dimensions approximately 148 x 43 x 18 mm (L x W x H).
- **Approvals:** VDE, CE, TÜV approved, SELV, EMC compliant.

## SETUP AND INSTALLATION

**Important:** Installation should only be carried out by a qualified professional.

1. **Power Disconnection:** Before commencing any work, switch off the main power supply at the circuit breaker.
2. **Mounting:** Mount the transformer in a suitable, well-ventilated location. The mounting type is typically rack mount or surface mount, ensuring secure attachment.
3. **Wiring - Primary (Input):** Connect the 230-240V AC mains supply to the primary input terminals marked "PRI" on the transformer. Ensure correct polarity (Live, Neutral).
4. **Wiring - Secondary (Output):** Connect the 12V halogen lamps to the secondary output terminals marked "SEC". Ensure the total wattage of the connected lamps is within the 35-120 Watt range.
5. **Dimmability:** If using a dimmer, ensure it is a phase section dimmer compatible with electronic transformers and installed according to its own instructions.
6. **Power Connection:** Once all connections are secure and verified, restore power at the circuit breaker.



**Figure 1:** Rolux SET-120F Electronic Halogen Transformer. The image displays the transformer unit, clearly showing the "SET120F" model number, "PRI" (Primary) input for 230-240V, and "SEC" (Secondary) output for 12V. Various certifications like CE, SELV, and EMC are also visible on the label.

## OPERATING INSTRUCTIONS

The Rolux SET-120F transformer operates automatically once correctly installed and powered. It converts the 230-240V AC mains voltage to a stable 11.6V AC for your low-voltage halogen lamps.

- **Power On/Off:** Control the power to the lamps via the main light switch or the connected dimmer.
- **Dimming Function:** If a compatible phase section dimmer is installed, adjust the dimmer control to vary the light output of the halogen lamps.
- **Normal Operation:** The transformer is designed for continuous operation within its specified load and temperature limits.

## MAINTENANCE

The Rolux SET-120F Electronic Halogen Transformer requires minimal maintenance.

- **Cleaning:** Ensure the transformer remains free from dust and debris. Disconnect power before gently wiping the exterior with a dry, soft cloth. Do not use liquid cleaners.
- **Inspection:** Periodically inspect the wiring connections for any signs of damage or loosening. Address any issues promptly after disconnecting power.
- **No User-Serviceable Parts:** The transformer contains no user-serviceable parts. Do not attempt to open or repair the unit. Refer any issues to a qualified technician.

## TROUBLESHOOTING

If you experience issues with your Rolux SET-120F transformer, consult the following table:

Problem	Possible Cause	Solution
Lamps do not light up.	No power supply to the transformer. Faulty wiring connection. Lamps are faulty or incorrect wattage. Transformer is overloaded or underloaded.	Check circuit breaker and wall switch. Verify all wiring connections (primary and secondary). Test lamps or replace with new ones of correct wattage (35-120W total). Ensure total lamp wattage is within 35-120W range.
Lamps flicker or dim inconsistently.	Incompatible dimmer. Loose connections. Transformer overloaded or underloaded.	Ensure dimmer is a phase section dimmer compatible with electronic transformers. Check all wiring connections. Verify total lamp wattage is within 35-120W range.
Transformer is hot to the touch.	Overload. Insufficient ventilation.	Reduce total lamp wattage to stay within 120W. Ensure adequate airflow around the transformer. If overheating persists, disconnect power and consult a qualified electrician.

## SPECIFICATIONS

Feature	Detail
Model Number	SET-120F
Type	Electronic Transformer for LV-Halogen Lamps
Input Voltage (Primary)	230-240V AC, 50Hz
Input Current	0.45A
Power Factor (CosØ)	0.99
Output Voltage (Secondary)	11.6V AC (RMS)
Max Output Current	10A
Power Range	35-120 Watts
Ambient Temperature (ta)	Max. 50°C
Case Temperature (tc)	Max. 85°C at 120W
Dimensions (L x W x H)	Approx. 148 x 43 x 18 mm
Mounting Type	Rack Mount (or surface mount)
Approvals / Certifications	CE, TÜV, VDE, SELV, EMC
UPC	685784858155
Manufacturer	Rolux (Marked as SAIF on device)
First Available Date	28 Dec. 2017

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the specific terms provided by your retailer or contact the manufacturer, Rolux, directly. Keep your proof of purchase for any warranty claims.

**Manufacturer:** Rolux

**Model:** SET-120F