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› Rolux SLT30-12VLG-ES LED Power Supply User Manual

## Rolux SLT30-12VLG-ES

# Rolux SLT30-12VLG-ES LED Power Supply User Manual

Model: SLT30-12VLG-ES

## PRODUCT OVERVIEW

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The Rolux SLT30-12VLG-ES is a compact LED power supply (transformer) designed for indoor use with 12V LED light sources. It converts 220-240V AC input to 12V DC output, providing up to 30W of power. This unit features a mini socket and a 1.5m power cord with a Euro flat plug for convenient connection.

Key features include:

- ROLUX SLT30-12VLG-ES LED Transformer 30W with mini socket and 1.5m power cord with Euro flat plug.
- Minimum load: 5W - max. output current: 6 A.
- Dimensions: 150 x 40 x 30mm (L/W/H).
- For use with 12V LED light sources up to max. 30W.
- Not suitable for Power-LEDs.

## SAFETY WARNINGS

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### Important Safety Information:

- For indoor operation only. Do not expose to moisture or wet conditions.
- Ensure proper ventilation around the power supply.
- Do not exceed the maximum output power of 30W.
- This device is not dimmable.
- Installation should be performed by a qualified electrician if you are unsure about electrical connections.
- Disconnect power before making any connections or performing maintenance.

## PRODUCT COMPONENTS AND LABELING

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**Image:** The Rolux SLT30-12VLG-ES LED Power Supply. The main unit is a rectangular white casing with product specifications printed on top, including model number SLT30-12VLG-ES, LED POWER SUPPLY, PRI: 220-240VAC, 50/60Hz, 0.16A,  $\lambda$ :0.95, SEC: 12VDC, 0-2.5A, 30Wmax, ta: -20...+50°C, tc: 90°C. It also shows wiring instructions for 7-8mm of insulation stripping and 0.75-1.00 mm² wire gauge. Various safety certifications like CE and SELV are visible. On the left, the input side shows "PRI 220-240VAC" with terminals for L and N. On the right, the output side shows "SEC 12VDC" with positive (+) and negative (-) terminals. Below the main unit, a white Euro flat plug with a 1.5m cable is shown, which connects to the input of the power supply. A black mini-socket connector is also visible, which is the output connector for the 12V DC side.

SPECIFICATIONS

| Feature         | Detail          |
|-----------------|-----------------|
| Model Number    | SLT30-12VLG-ES  |
| Input Voltage   | 220-240V AC     |
| Input Frequency | 50/60Hz         |
| Output Voltage  | 12V DC          |
| Output Current  | 2.5A (Max 6A)   |
| Output Power    | 0-30W (Max 30W) |
| Minimum Load    | 5W              |
| Power Factor    | 0.95            |

| Feature                  | Detail              |
|--------------------------|---------------------|
| Dimmable                 | No                  |
| Protection Class         | II                  |
| Protection Type          | IP20                |
| Ambient Temperature (Ta) | -20°C to 45°C       |
| Case Temperature (Tc)    | 90°C                |
| Dimensions (L x W x H)   | 165mm x 40mm x 30mm |
| Weight                   | 313 g               |
| Cable Length             | 1.5 meters (input)  |

## SETUP AND INSTALLATION

- Power Disconnection:** Before beginning any installation, ensure that the main power supply to the circuit is disconnected at the fuse box or circuit breaker.
- Input Connection (AC):**
  - The power supply comes with a 1.5m cable and a Euro flat plug for the AC input (220-240V AC).
  - Connect this plug to a suitable wall outlet.
  - Note:* If direct wiring is required, ensure the input wires (L and N) are correctly connected to the corresponding terminals on the power supply. Wire preparation: strip 7-8mm of insulation, use 0.75-1.00 mm<sup>2</sup> wire gauge.
- Output Connection (DC):**
  - Connect your 12V LED light source(s) to the DC output side of the power supply. The output is via a mini-socket connector.
  - Ensure the total wattage of your connected LED light sources does not exceed 30W.
  - Ensure the minimum load of 5W is met for optimal performance.
  - Observe correct polarity (+ and -) when connecting your LED devices.
- Placement:** Place the power supply in a dry, well-ventilated area, away from direct heat sources or flammable materials. Ensure the ambient temperature remains within the specified range of -20°C to 45°C.
- Power On:** Once all connections are secure and verified, restore power to the circuit. The connected LED lights should illuminate.

## OPERATING INSTRUCTIONS

The Rolux SLT30-12VLG-ES LED Power Supply operates automatically once correctly installed and powered. It provides a stable 12V DC output for compatible LED lighting.

- This power supply is **not dimmable**. Do not connect it to a dimmer switch.
- Ensure the total power consumption of connected LED devices does not exceed 30W. Overloading can damage the power supply and connected devices.
- The power supply is designed for continuous operation within its specified temperature range.

## MAINTENANCE

The Rolux SLT30-12VLG-ES LED Power Supply requires minimal maintenance.

- **Cleaning:** Periodically clean the exterior of the power supply with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure the unit is disconnected from power before cleaning.
- **Inspection:** Regularly inspect the cables and connections for any signs of damage, fraying, or loose connections. If any damage is observed, disconnect the power supply immediately and replace it if necessary.
- **Ventilation:** Ensure that the ventilation openings (if any) are not obstructed to prevent overheating.

TROUBLESHOOTING

| Problem                 | Possible Cause                                                                                                                                                                                                                                               | Solution                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEDs do not light up.   | <ul style="list-style-type: none"><li>◦ No power to the power supply.</li><li>◦ Incorrect wiring (input or output).</li><li>◦ Overload (total wattage of LEDs too high).</li><li>◦ LEDs are faulty.</li><li>◦ Minimum load not met (less than 5W).</li></ul> | <ul style="list-style-type: none"><li>◦ Check power outlet and circuit breaker.</li><li>◦ Verify all connections are secure and correct polarity is observed.</li><li>◦ Reduce the total wattage of connected LEDs to below 30W.</li><li>◦ Test LEDs with another 12V power source if available.</li><li>◦ Ensure total load is at least 5W.</li></ul> |
| LEDs flicker or dim.    | <ul style="list-style-type: none"><li>◦ Loose connection.</li><li>◦ Overload or underload.</li><li>◦ Incompatible LED type (e.g., Power-LEDs).</li></ul>                                                                                                     | <ul style="list-style-type: none"><li>◦ Check all connections.</li><li>◦ Verify load is between 5W and 30W.</li><li>◦ Ensure only standard 12V LEDs are used, not Power-LEDs.</li></ul>                                                                                                                                                                |
| Power supply feels hot. | <ul style="list-style-type: none"><li>◦ Poor ventilation.</li><li>◦ Overload.</li><li>◦ High ambient temperature.</li></ul>                                                                                                                                  | <ul style="list-style-type: none"><li>◦ Ensure adequate airflow around the unit.</li><li>◦ Reduce the load to below 30W.</li><li>◦ Relocate the power supply to a cooler environment (within -20°C to 45°C).</li></ul>                                                                                                                                 |

DISPOSAL INFORMATION

This product contains electronic components and should not be disposed of with household waste. Please follow local regulations for the recycling of electronic waste. Information regarding the recycling of lamps and disposal of broken or damaged lamps can be found through your local recycling centers or relevant authorities.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Rolux SLT30-12VLG-ES LED Power Supply, please contact the manufacturer or your point of purchase. Keep your proof of purchase for any warranty claims.

Manufacturer: Rolux

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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