

## BSOD 3-5W

# BSOD (3-5)x1W LED Driver Instruction Manual

Model: (3-5)x1W Constant Current 300mA LED Driver

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your BSOD (3-5)x1W Constant Current LED Driver. Please read these instructions carefully before installation and operation, and retain them for future reference.

The LED driver is designed to convert AC voltage to a constant DC current suitable for powering LED lights within the specified wattage range. It features a compact design, making it a suitable replacement or component for various LED lighting applications.



Image 1: The BSOD (3-5)x1W LED Driver, showing its compact form factor and wiring.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Hazard:** Installation should only be performed by a qualified electrician or knowledgeable individual. Ensure power is disconnected at the circuit breaker before any installation or maintenance.
- **Voltage Compatibility:** Verify that the input voltage (AC85-265V) and output voltage/current (DC6-15V, 300mA) of the driver match the requirements of your LED lighting system.

- **Wattage Limits:** Do not exceed the maximum output power of the LED driver (3-5W). Overloading can cause damage to the driver and connected LEDs. It is recommended to reserve approximately 20% power space for optimal longevity.
- **Environment:** This driver is **not waterproof**. Install in a dry environment, away from moisture and direct water exposure.
- **Ventilation:** Ensure adequate ventilation around the driver to prevent overheating.
- **Material Safety:** The housing is made of ABS fireproof material, designed for high temperature resistance and flame retardancy.



*Image 2: Demonstration of the flame-retardant properties of the driver's housing material.*

### 3. PRODUCT FEATURES

- **Compact Design:** Small size for easy integration into various lighting fixtures.
- **Safety Features:** Equipped with over-current protection and short circuit protection.
- **Stable Performance:** Provides constant current output, ensuring no noise and no flickering for connected LEDs.
- **Durable Construction:** Housing made from ABS fireproof, high-temperature resistant, and flame-retardant material.

- **High Efficiency:** Features high power factor and low temperature rise for efficient operation.
- **Easy Installation:** Comes with pre-attached connection cables for straightforward setup.

## 4. SPECIFICATIONS

<b>Item Type</b>	Lighting Transformers / LED Driver
<b>Model</b>	(3-5)x1W
<b>Input Voltage</b>	AC85-265V, 50/60Hz
<b>Output Voltage</b>	DC6-15V
<b>Output Current</b>	300mA
<b>Power</b>	3-5W
<b>Dimensions</b>	68 x 33 x 22 mm (approx. 2.68 x 1.30 x 0.87 inches)
<b>Work Temperature</b>	-40°C to +65°C (-40°F to +149°F)
<b>Waterproof</b>	No
<b>Material</b>	Plastic (ABS Fireproof)
<b>Certifications</b>	CCC, CE



Image 3: Close-up view of the LED driver's label, displaying model, input/output specifications, and certifications.

## 5. SETUP AND INSTALLATION

Follow these steps for proper installation of your LED driver:

1. **Disconnect Power:** Before starting any electrical work, ensure the main power supply to the circuit is turned off at the breaker.
2. **Identify Wires:** The LED driver has two sets of wires:
  - **Input Wires (AC):** Typically white wires, marked for AC input (AC85-265V). Connect these to your

main power supply.

- **Output Wires (DC):** Typically with a DC plug, marked for DC output (DC6-15V). Connect this plug to your compatible LED light fixture.
3. **Connect Input:** Connect the AC input wires of the driver to your household AC power lines. Ensure proper polarity if indicated, though for AC input, it's generally not critical for the driver itself. Secure all connections with appropriate electrical connectors (e.g., wire nuts, terminal blocks).
  4. **Connect Output:** Plug the DC output connector from the driver into the corresponding input port on your LED light fixture. Ensure a secure connection.
  5. **Mounting:** Position the LED driver in a secure, dry location with adequate ventilation. Avoid enclosing it in a way that restricts airflow.
  6. **Restore Power:** Once all connections are secure and verified, restore power at the circuit breaker.

*Note: If you are unsure about any part of the installation process, consult a qualified electrician.*



*Image 4: An LED driver shown in the context of a ceiling light installation, illustrating its typical application.*

## 6. OPERATING INSTRUCTIONS

Once properly installed and connected, the BSOD (3-5)x1W LED Driver operates automatically:

- Turn on the power switch for the circuit to which the LED driver is connected.
- The connected LED lights should illuminate instantly.
- The driver will maintain a constant current to the LEDs, ensuring stable light output without flickering.

No further user interaction is required for basic operation.



*Image 5: Examples of LED decorative lighting where this driver can be applied, such as pendant lights.*

## 7. MAINTENANCE

The BSOD (3-5)x1W LED Driver is designed for long-term, maintenance-free operation. However, consider the following for optimal performance and longevity:

- **Cleaning:** If necessary, gently wipe the exterior of the driver with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure power is disconnected before cleaning.
- **Inspection:** Periodically inspect the wiring and connections for any signs of wear, damage, or loose connections. Address any issues promptly.
- **Environment:** Ensure the operating environment remains within the specified temperature range and free from excessive dust or moisture.

## 8. TROUBLESHOOTING

If you encounter issues with your LED driver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LEDs do not light up.	<ul style="list-style-type: none"><li>◦ No power to the driver.</li><li>◦ Loose or incorrect wiring.</li><li>◦ Faulty LED fixture.</li><li>◦ Driver overload (wattage too high).</li></ul>	<ul style="list-style-type: none"><li>◦ Check circuit breaker and power switch.</li><li>◦ Verify all input and output connections are secure and correct.</li><li>◦ Test the LED fixture with a known working driver or power source.</li><li>◦ Ensure total LED wattage is within the 3-5W range of the driver.</li></ul>
LEDs flicker or dim.	<ul style="list-style-type: none"><li>◦ Unstable input voltage.</li><li>◦ Loose connections.</li><li>◦ Driver is failing.</li><li>◦ Incompatible LED fixture.</li></ul>	<ul style="list-style-type: none"><li>◦ Check AC input voltage stability.</li><li>◦ Inspect and secure all wiring connections.</li><li>◦ Replace the driver if other solutions fail.</li><li>◦ Ensure the LED fixture is compatible with a constant current 300mA driver.</li></ul>
Driver feels excessively hot.	<ul style="list-style-type: none"><li>◦ Poor ventilation.</li><li>◦ Overload (wattage too high).</li><li>◦ Operating in high ambient temperature.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure adequate airflow around the driver.</li><li>◦ Verify total LED wattage is within the 3-5W range.</li><li>◦ Relocate the driver to a cooler environment if possible.</li></ul>

## 9. WARRANTY AND SUPPORT

This product is manufactured to high-quality standards. For warranty information or technical support, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the [BSOD Store on Amazon](#) or contact Bosenda Direct, the seller.