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› DUSKTEC 15W 12V LED Driver Transformer User Manual (Model: DT-DA12V-15W)

## DUSKTEC DT-DA12V-15W

# DUSKTEC 15W 12V LED Driver Transformer User Manual

Model: DT-DA12V-15W

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your DUSKTEC 15W 12V LED Driver Transformer. Please read these instructions carefully before use and retain them for future reference.

The DUSKTEC 15W 12V LED Driver Transformer is a constant voltage power supply designed to convert AC input (100-240V) to a stable 12V DC output, suitable for various low-voltage LED lighting applications.



Image 1: DUSKTEC 15W 12V LED Driver Transformer. This image shows the compact, slim design of the LED driver with clearly marked input and output terminals.

## 2. SAFETY INFORMATION

- Always disconnect power before installation or servicing.
- Installation should be performed by a qualified electrician in accordance with local electrical codes.
- Do not exceed the maximum load capacity of 15W. For optimal performance and longevity, load the LED driver to no more than 80% of its capacity (12W).
- Ensure proper ventilation around the transformer to prevent overheating.
- This device is designed for constant voltage LED lamps only. It is not compatible with constant current lamps or halogen lamps.
- The unit is not dimmable. Do not connect to dimmers.
- The transformer features automatic protection against short-circuit, over-voltage, over-current, and over-

temperature.

- The flame-retardant ABS housing provides protection against potential fire hazards.

### 3. PRODUCT FEATURES

- **Slim Profile:** Compact design (0.63 inches thick) for easy concealment in various installations.
- **Stable Performance:** Provides constant 12V DC output without flicker or noise.
- **Safety Protections:** Includes short-circuit, over-voltage, over-current, and over-temperature protection.
- **Wide Compatibility:** Suitable for G4, MR11, MR16/GU5.3 spotlights, LED strips, cabinet lights, and other 12V DC low-voltage LED applications.
- **IP44 Rating:** Suitable for dry or wet locations.
- **Class II Power Supply:** Enhanced safety through double insulation.

## Security Protection



Flame Retardant  
ABS Casing



Over Voltage  
Protection



Over Temperature  
Protection



Over Current  
Protection



Short Circuit  
Protection

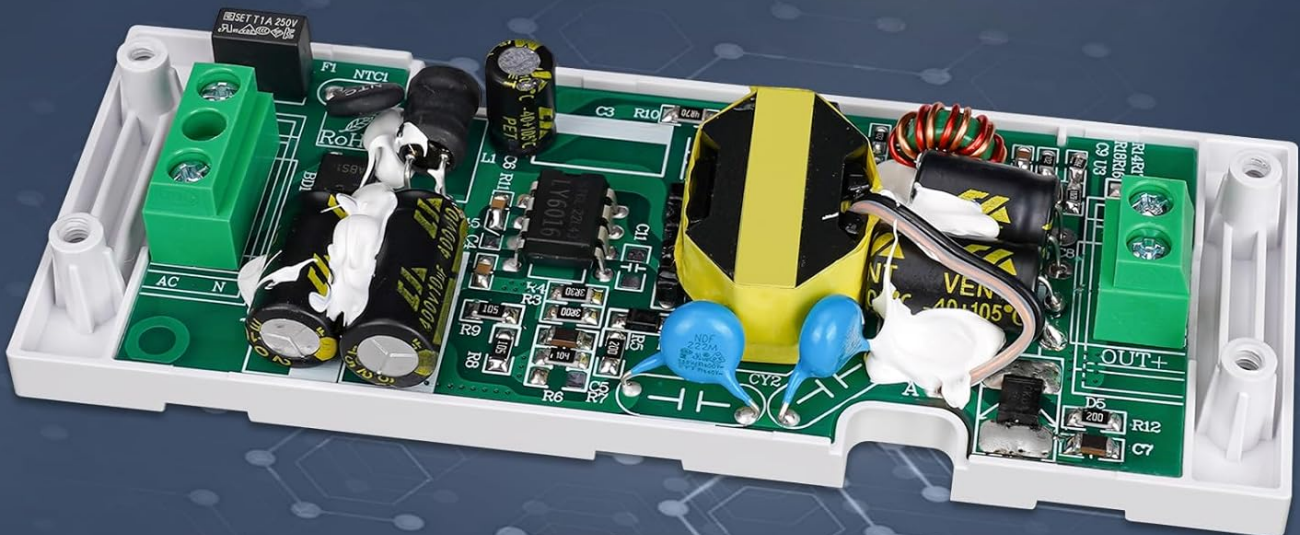


Image 2: Security Protection Features. This diagram illustrates the various safety features including flame-retardant

casing, over-voltage, over-temperature, over-current, and short-circuit protection.

## 4. SPECIFICATIONS

| Parameter              | Value                                                       |
|------------------------|-------------------------------------------------------------|
| Model Number           | DT-DA12V-15W                                                |
| Input Voltage          | AC 100-240V, 50/60Hz                                        |
| Output Voltage         | DC 12V                                                      |
| Output Current         | 1.25A (Max)                                                 |
| Output Power           | 15W (Max)                                                   |
| Dimensions (L x W x H) | 4.41" x 1.73" x 0.63" (112mm x 44mm x 16mm)                 |
| Current Rating         | 1.25 Amps                                                   |
| Mounting Type          | Wall Mount                                                  |
| Protection             | Short-circuit, Over-voltage, Over-current, Over-temperature |
| IP Rating              | IP44                                                        |
| Compatibility          | 12V DC Constant Voltage LED Lights (non-dimmable)           |

# Class II Power Supply

- ✓ Ultra-thin design, Unique Shape.
- ✓ Small in size, big in performance.
- ✓ LED Driver with stable voltage.
- ✓ Do not support brightness and colour adjustments.
- ✓ Keeping the load within 80% of the 12V DC transformer's maximum capacity for work well.



Image 3: Product Dimensions and Class II Power Supply Features. This image displays the physical dimensions of the LED driver and highlights its Class II safety rating, ultra-thin design, and stable voltage output.

## 5. SETUP AND INSTALLATION

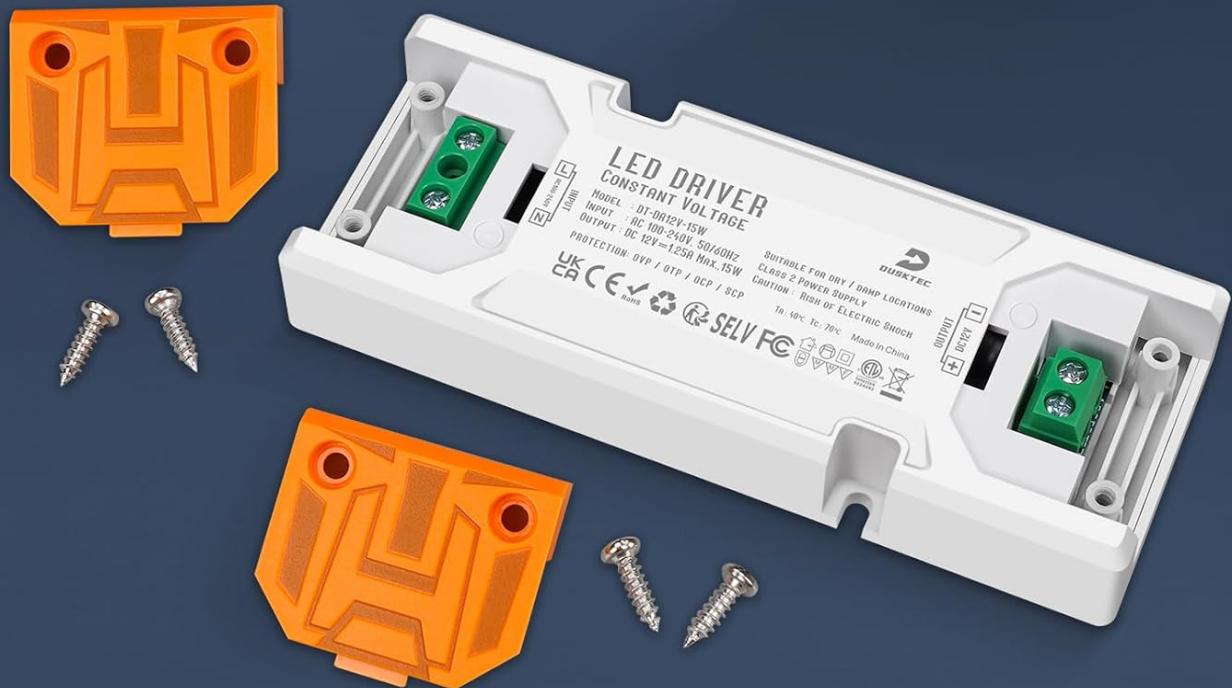
Follow these steps for proper installation of the LED driver transformer:

1. **Prepare Wiring:** Ensure all power is disconnected at the circuit breaker before beginning. Strip approximately 6-8mm of insulation from the AC input wires (Live and Neutral) and the DC output wires (Positive and Negative).
2. **Connect AC Input:** Open the orange terminal cover on the input side. Connect the AC Live wire to the 'L' terminal and the AC Neutral wire to the 'N' terminal. Secure the wires by tightening the screw terminals.
3. **Connect DC Output:** Open the orange terminal cover on the output side. Connect the DC Positive (+) wire from your LED lights to the '+' terminal and the DC Negative (-) wire to the '-' terminal. Secure the wires by tightening the screw terminals.
4. **Secure Covers:** Replace both orange terminal covers, ensuring they are securely fastened to protect the

connections.

5. **Mounting:** The slim design allows for discreet placement. Mount the transformer in a suitable, well-ventilated location using appropriate screws.
6. **Power On:** Once all connections are secure and verified, restore power to the circuit.

## Easy to Install



Connect 100-240V  
AC Power



Connect 12V  
DC LED Lights



Tighten the screws

Image 4: Easy Installation Steps. This visual guide demonstrates the three main steps: connecting 100-240V AC power, connecting 12V DC LED lights, and tightening the screw terminals.

# For all 12V constant voltage

## Non-dimmable led lights

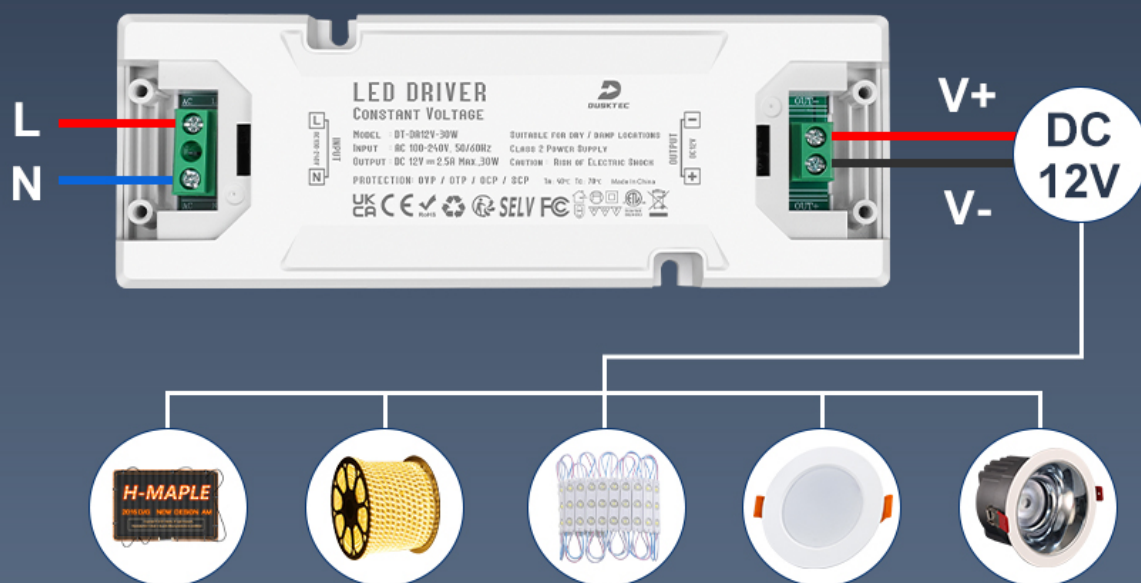


Image 5: Wiring Diagram. This diagram illustrates how to connect the AC input (L and N) to the driver and the DC 12V output (V+ and V-) to various 12V constant voltage, non-dimmable LED lights such as LED lights, LED strip lights, LED modules, and ceiling lights.

## 6. OPERATING INSTRUCTIONS

The DUSKTEC 15W 12V LED Driver Transformer operates automatically once correctly installed and powered. It provides a constant 12V DC output to connected LED lights.

- **Load Capacity:** To ensure the longest lifespan and stable operation, do not load the LED driver to more than 80% of its maximum capacity. For this 15W model, the recommended maximum load is 12W.
- **Non-Dimmable:** This driver is not designed for dimming. Connecting it to a dimmer switch may cause malfunction or damage.
- **No Minimum Load:** The driver does not require a minimum load to operate.

 **NO FLICKERING**  
 **NO HUMMING**



Image 6: Silent and Flicker-Free Operation. This image highlights the driver's ability to provide stable power without flickering or humming, suitable for various indoor environments like living rooms, bedrooms, kitchens, and game rooms.

## 7. MAINTENANCE

The DUSKTEC LED Driver Transformer requires minimal maintenance. Follow these guidelines to ensure continued optimal performance:

- **Regular Inspection:** Periodically check the wiring connections for any signs of loosening or damage. Ensure the terminal covers are securely in place.
- **Cleaning:** Keep the unit free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the area around the transformer remains clear and well-ventilated to prevent heat buildup.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures or humidity beyond its IP44 rating.

## 8. TROUBLESHOOTING

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

- **No Light Output:**

- Check if the power supply is connected and receiving AC input.
- Verify that the DC output wires are correctly connected to the LED lights (positive to positive, negative to negative).
- Ensure the total wattage of connected LED lights does not exceed 80% of the driver's capacity (12W for this 15W model).
- Inspect LED lights for damage or malfunction.

- **Flickering Lights:**

- Confirm that the LED lights are constant voltage 12V DC type.
- Ensure stable AC input voltage.
- Check for loose connections.

- **Driver Overheating:**

- Reduce the load on the driver if it exceeds 80% of its capacity.
- Ensure adequate ventilation around the unit.
- Verify ambient temperature is within operating limits.

- **Noisy Operation:**

- This driver is designed for silent operation. If noise occurs, check for loose connections or an incompatible load.
- Ensure the driver is not connected to a dimmer.

If problems persist after troubleshooting, contact DUSKTEC customer support.

## 9. WARRANTY AND SUPPORT

DUSKTEC provides a 2-year limited manufacturer's support for this LED driver transformer, ensuring reliability and performance.

- **Warranty Period:** 2 years from the date of purchase.
- **Support:** DUSKTEC is committed to providing quick responses, typically within 24 hours, for any inquiries or issues.
- **Contact:** For technical assistance or warranty claims, please refer to the contact information provided on the DUSKTEC official website or your purchase documentation.



Image 7: Warranty and Support Information. This graphic highlights the 2-year limited manufacturer's support, 24-hour quick response service, and the product's safe and reliable certifications (UKCA / CE / ROHS).

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## Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### 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