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Adapter-Universe Ada-LG60W12V-HY

Adapter-Universe 12V 60W Dimmable LED Driver Instruction Manual

Model: Ada-LG60W12V-HY

1. Product Overview

The Adapter-Universe 12V 60W Dimmable LED Driver is a Triac ELV/MLV compatible electronic transformer designed for various 12V LED lighting applications. It provides smooth, flicker-free dimming from 0-100% and is compatible with Lutron and Leviton dimmer switches. This driver is suitable for use with 12V LED strip lights, LED modules, and LED bulbs.
Key features include:

- **Strong Compatibility:** Works with Triac ELV/MLV dimmers, including Lutron and Leviton switches.
- **Wide Application:** Ideal for 12V LED strip lights, LED modules, and LED bulbs.
- **Smooth Dimming:** Achieves 0-100% dimming without flicker or noise.
- **Safety Features:** Built-in short circuit, over loading, and over temperature protection. UL, cUL listed, Class 2, Class P, Type HL rated, and FCC compliant.



Figure 1: Product dimensions and dimming range.



Figure 2: Versatile applications for the LED driver.

2. Setup and Installation

The Dimmable LED Driver is designed for quick and straightforward installation. Ensure the power supply is disconnected before beginning any electrical work.

2.1 Wiring Instructions

Refer to the wiring diagram below for proper connection. The driver has clearly labeled input and output wires.

- **Input (AC 120V, 60Hz):** Connect the black input wire to the Live (L) line and the white input wire to the Neutral (N) line from your AC power source.
- **Output (DC 12V):** Connect the red output wire to the positive (+) terminal of your 12V LED load and the black output wire to the negative (-) terminal.

Note: Be sure to match the output voltage of the driver (12V) with the requirements of your LED lighting. Incorrect voltage can damage your LEDs.



Figure 3: Standard wiring diagram for the LED driver with a dimmer and LED strip.

2.2 Installation Video

Watch this video for a visual guide on the product's features and installation considerations.

Your browser does not support the video tag.

Video 1: Overview of the Dimmable LED Driver and its compact size.

3. Operating Instructions

Once installed, the LED driver operates seamlessly with compatible dimmer switches to control your LED lighting.

3.1 Dimming Functionality

The driver supports smooth dimming from 0% to 100% brightness. It is designed to eliminate flicker and noise during operation, providing a consistent lighting experience.



Figure 4: Example of smooth dimming in a bathroom setting.

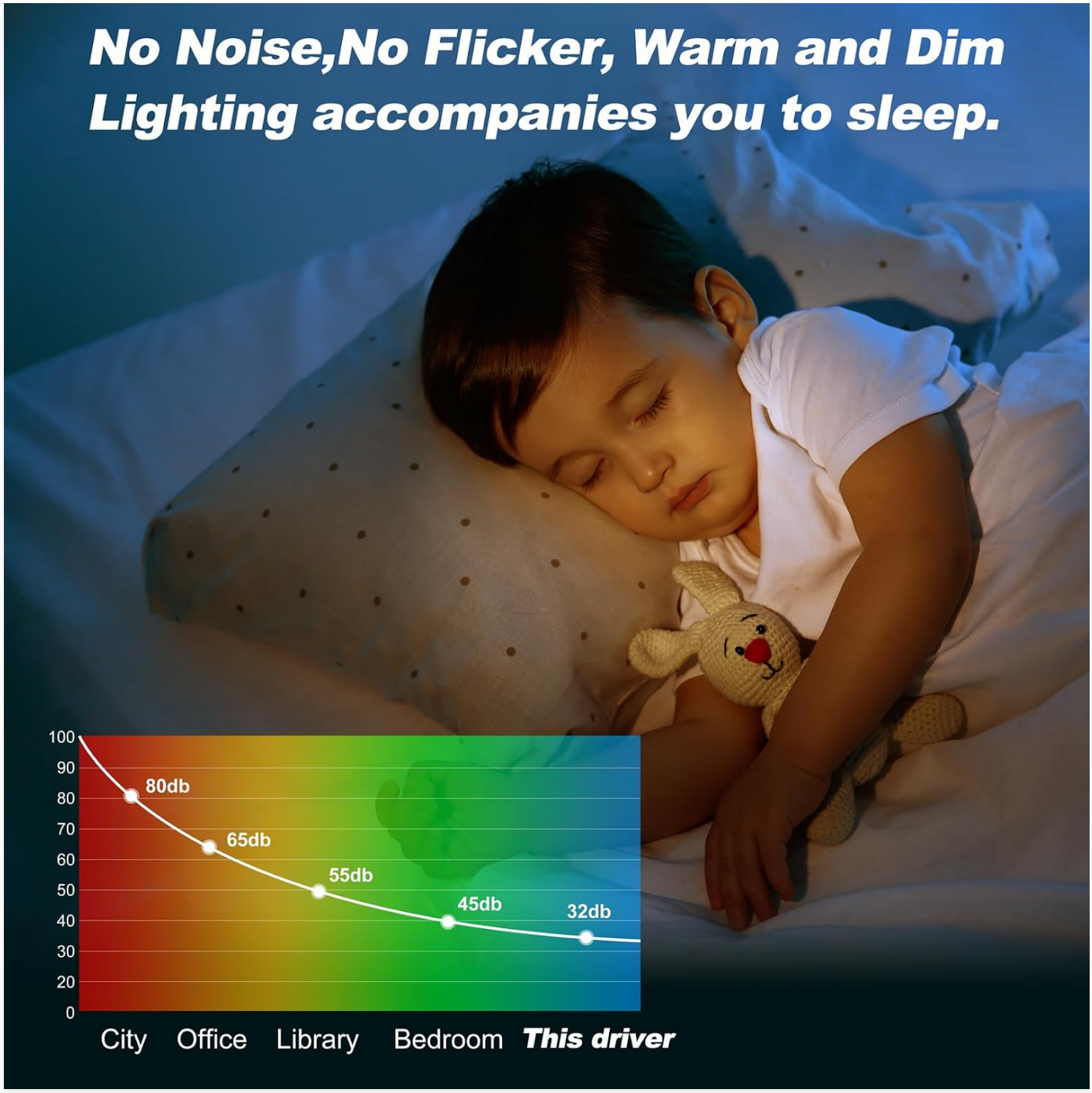


Figure 5: The LED driver provides quiet and flicker-free dimming for comfortable environments.

3.2 Dimmer Compatibility

This LED driver is compatible with a range of PHASE/TRIAC dimmers. Below is a list of tested compatible dimmer models from Lutron, Leviton, and Crestron. Always verify compatibility with your specific dimmer model.

PHASE /TRAIC Dimmer Compatibility List					
LUTRON					
SCL-153PR-WH	0-100%	MLV/TRIAC	MAELV-600	8-100%	ELV
DVCL-153PR-WH	0-100%	MLV/TRIAC	MSCELV-600M	15-100%	ELV
HQRD-6CL	12-100%	MLV/TRIAC	MIRELV-600	13-100%	ELV
CTCL-153PDH-LA	0-100%	MLV/TRIAC	MRF2-6ELV-120	15-100%	ELV
DVCL-253P	0-100%	MLV/TRIAC	RRA-6NA	15-100%	ELV
DVELV-303P	10-100%	ELV	CL MACL-153MH	12-100%	MLV/TRIAC
HQRD-6NA	13-100%	ELV/MLV/TRIAC	SELV-300P	0-100%	ELV
MRF2-6ELV-120-WH	10-100%	ELV	HQRD-6CL	13-100%	MLV/TRIAC
NTELV-600-WH	20-100%	ELV	PD-6WCL	15-100%	MLV/TRIAC
MRF2-6ELV-120-WH	15-100%	ELV	RRA-6ND	18-100%	MLV/TRIAC
NVELV-600-WH	8-100%	ELV	DVLV-600P	8-100%	MLV/TRIAC
VTELV-600-XXX	12-100%	ELV	DVCL-153P-WH	0-100%	MLV/TRIAC
SELV-600-WH	10-100%	ELV	PD-5NE-WH	0-100%	MLV/TRIAC
NTELV-300	12-100%	ELV	MA-PRO	0-100%	MLV/TRIAC
LEVITON					
Model VPE06	12-100%	ELV	Model 6674/IPL06	12-100%	MLV/TRIAC
Model VPE04	9-100%	ELV	Model IPI06	13-100%	MLV/TRIAC
VPE06	15-100%	ELV	VPM06	10-100%	MLV/TRIAC
Model 6615	18-100%	MLV/TRIAC	Model VPM10	9-100%	MLV/TRIAC
Model 6672	12-100%	MLV/TRIAC			
CRESTRON					
SELV-300P	8-100%	ELV	CLW-DELVEX-E	18-100%	ELV
CLS-EXP-DIMU	12-100%	ELV/MLV/TRIAC	CLW-DELVEX-P	10-100%	ELV
DIN-1DIMU4	15-100%	ELV/MLV/TRIAC	CLW-DELVEX-P-W	13-100%	ELV
CLX-1DELV4	9-100%	ELV			

Figure 6: PHASE/TRIAC Dimmer Compatibility List.

4. Maintenance

The Adapter-Universe LED Driver is designed for long-term, maintenance-free operation. No user-serviceable parts are inside. To ensure optimal performance and longevity:

- Keep the unit free from dust and debris.
- Ensure adequate ventilation around the driver to prevent overheating.
- Avoid exposing the unit to extreme temperatures or moisture beyond its specified operating conditions.

5. Troubleshooting

If you encounter issues with your LED driver, consider the following troubleshooting steps:

- **No Light Output:**

- Check all wiring connections to ensure they are secure and correctly matched (input AC, output DC).
- Verify that the power source is active.
- Confirm that the LED load is functioning correctly and is rated for 12V.

- **Flickering or Unstable Dimming:**
  - Ensure your dimmer switch is compatible with Triac ELV/MLV LED drivers (refer to Section 3.2).
  - Check that the total wattage of your LED load does not exceed the driver's 60W capacity.
  - Inspect wiring for loose connections or damage.
- **Overheating:**
  - Ensure the driver is installed in a location with sufficient airflow and not enclosed in a way that traps heat.
  - Verify that the total wattage of the connected LEDs is within the driver's rated capacity.

If problems persist after following these steps, please contact customer support.

6. Specifications

Feature	Detail
Model Number	Ada-LG60W12V-HY
Input Voltage	120V AC, 50/60Hz
Output Voltage	12V DC
Output Power	60W
Dimming Type	Triac ELV/MLV
Dimming Range	0-100%
Certifications	UL, cUL listed, Class 2, Class P, Type HL rated, FCC compliant
Product Dimensions	4 x 1.7 x 1.5 inches
Item Weight	5.6 ounces (0.16 Kilograms)
Manufacturer	Adapter-Universe
Mounting Type	Surface Mount
Product Information Link	http://etf.demidim.com/

7. Warranty and Support

Adapter-Universe provides a **5-year warranty service** for this LED driver. If you encounter any issues or have questions, please contact us directly through your Amazon order message. We aim to respond within 12 hours.
EU Spare Part Availability Duration: 5 Years.
For further assistance, visit the official Adapter-Universe store on Amazon:Adapter-Universe Store

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