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> [Meanwell ELG-100-24DA-3Y 100W 24V 4A IP67 Dimmer DALI LED Power Supply Driver User Manual](#)

MEAN WELL ELG-100-24DA-3Y

Meanwell ELG-100-24DA-3Y LED Power Supply Driver User Manual

Model: ELG-100-24DA-3Y | Brand: MEAN WELL

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of the Meanwell ELG-100-24DA-3Y LED Power Supply Driver. Please read this manual thoroughly before using the product and retain it for future reference.

The ELG-100-24DA-3Y is a 100W AC/DC LED driver designed for various lighting applications. It features dual-mode constant voltage and constant current output, along with DALI dimming functionality. Its robust metal housing and IP67 rating make it suitable for both indoor and outdoor environments.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation should only be performed by qualified personnel. Ensure power is disconnected before any installation or maintenance.
- **Proper Grounding:** Always ensure the unit is properly grounded to prevent electrical shock.
- **Ventilation:** Although fanless, ensure adequate air circulation around the unit to prevent overheating. Do not cover the unit.
- **Environmental Conditions:** Do not expose the unit to temperatures or humidity levels outside its specified operating range.
- **Damage Inspection:** Before use, inspect the unit for any physical damage. Do not use if damaged.
- **Compatibility:** Ensure the connected LED load is compatible with the driver's output voltage and current specifications.

3. PRODUCT OVERVIEW

The Meanwell ELG-100-24DA-3Y is a high-efficiency LED driver designed for reliable performance in various lighting applications. Key features include:

- 100W AC/DC LED Power Supply
- Dual Mode: Constant Voltage (CV) and Constant Current (CC) Output
- DALI Dimming Functionality

- Wide Input Voltage Range: 100~360VAC
- Output Voltage: 24V DC
- Output Current: 4A
- High Efficiency: Up to 91%
- Fanless Design for Silent Operation
- Operating Case Temperature: -40°C to +90°C
- IP67 Rated Metal Housing for Indoor and Outdoor Use



Figure 1: Meanwell ELG-100-24DA-3Y LED Power Supply Driver. An overhead view showing its metallic casing, input and output cables, and product label with specifications.

4. SETUP AND INSTALLATION

Before proceeding with installation, ensure all safety precautions are understood and followed. Disconnect all power sources.

4.1 Wiring Connections

The ELG-100-24DA-3Y features pre-wired input and output cables. Refer to the product label and local electrical codes for correct wiring.

- **Input (AC):** Connect the AC input wires to your main power supply.
 - ACN (Blue)
 - ACL (Brown)
 - FG (Green/Yellow) - Ground
- **Output (DC):** Connect the DC output wires to your LED fixture.
 - +V (Positive)
 - -V (Negative)

- **DALI Dimming:** Connect the DALI control wires to your DALI master controller.

4.2 Mounting

Mount the driver securely using appropriate fasteners. Ensure the mounting surface is stable and can support the weight of the unit. Allow sufficient space around the unit for heat dissipation, even with its fanless design.

5. OPERATING INSTRUCTIONS

Once properly installed and wired, the ELG-100-24DA-3Y is ready for operation.

1. **Power On:** Apply AC power to the input terminals. The connected LED fixture should illuminate.
2. **DALI Dimming:** Use your DALI master controller to adjust the brightness of the connected LED fixture. Refer to your DALI controller's manual for specific operation instructions.
3. **Monitoring:** Periodically check the unit for any unusual noises, smells, or excessive heat.

6. MAINTENANCE

The Meanwell ELG-100-24DA-3Y is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Ensure the unit's exterior is kept clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners directly on the unit.
- **Cable Inspection:** Periodically inspect input and output cables for any signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Connection Check:** Verify that all electrical connections remain secure.

7. TROUBLESHOOTING

If you encounter issues with your ELG-100-24DA-3Y, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LEDs do not light up.	No AC input power. Incorrect wiring. Faulty LED fixture.	Check power supply to the driver. Verify all input and output connections. Test LED fixture with a known good power source.
LEDs flicker or dim unexpectedly.	Unstable AC input. DALI control issue. Overload.	Check AC input voltage stability. Verify DALI controller settings and wiring. Ensure total LED load does not exceed 100W.
Unit is excessively hot.	Insufficient ventilation. Overload.	Ensure adequate airflow around the unit. Reduce the connected load if it exceeds 100W.

If the problem persists after attempting these solutions, contact qualified service personnel.

8. SPECIFICATIONS

Parameter	Value
Model	ELG-100-24DA-3Y

Parameter	Value
Brand	MEAN WELL
Input Voltage Range	100-360VAC (AC: 180-305V; DC: 254-431V)
Output Voltage	24V DC
Output Current	4A
Maximum Output Power	100W (Note: A specification lists 75.6W, refer to product datasheet for exact operating range)
Dimming Function	DALI
Efficiency	Up to 91%
IP Rating	IP67
Operating Case Temperature	-40°C to +90°C
Dimensions (L x W x H)	11.02 x 3.35 x 1.77 inches (28 x 8.5 x 4.5 cm)
Weight	1.87 pounds (0.85 kg)
Housing Material	Aluminum

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized Meanwell distributor. Keep your purchase receipt as proof of purchase.