GMLighting

INSTALLATION GUIDE FOR MODELS:
LD-EDM-60-12, LD-EDM-60-24

12/24VDC ELECTRONIC TRANSFORMER

GENERAL

This electronic, Class 2, power supply is to be installed indoors in accordance with Articles 450 & 725 of the National Electric code (NEC) and local ordinances. Proper operation requires free air convection when installed. A qualified electrician should install this hardwired power supply.

PRECAUTIONS BEFORE INSTALLING

Check the label and ensure the electronic transformer has the proper input voltage, output voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this instruction sheet.

LOADING

Recommended minimum **10W** loading for optimal performance. The minimum dimming level is around 10% to 20%. May vary with dimmer model and loading.

MOUNTING

Select a suitable location capable of supporting the weight of the power supply.

INPUT CONNECTIONS/GROUNDING

Use black for hot, white for neutral to connect electronic transformer to 120V power.

OUTPUT CONNECTIONS

Connect the LED positive (+) wire ito red wire from electronic transformer. Connect the LED negative (-) wire to blue wire from electronic transformer.

QUICK SPECS

Model	LD-EDM-60-12	LD-EDM-60-24
Input Voltage	120VAC, 50/60Hz	
Output Voltage	12VDC	24VDC
Maximum Load	60W	
Operating Temp	-22 ~ 104°F (-30 ~ +40°C)	
Environment	Dry and damp location	

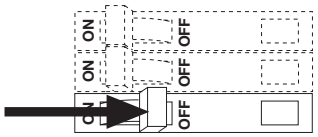
INPUT VOLTAGE NOTE!

The power supply label will indicate the input voltage: 120VAC only. ENSURE to power the power supply with the correct voltage!

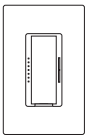
INSTALLATION

1 TURNING OFF POWER

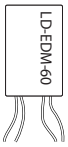
WARNING: Electric Shock Hazard. May result in serious injury or death.
Turn power OFF at circuit breaker prior to installation.



2 INSTALL COMPONENTS



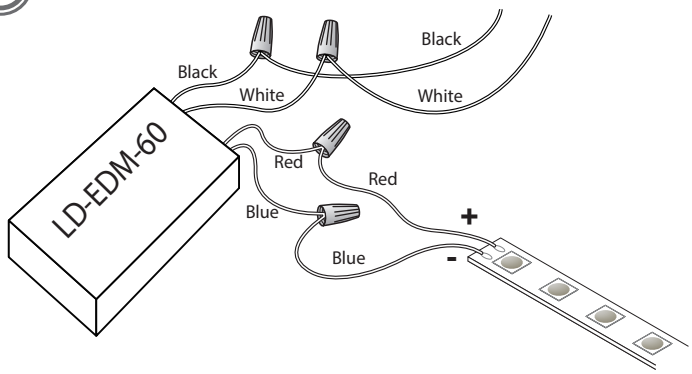
1) Compatible Control



2) LD-EDM-60

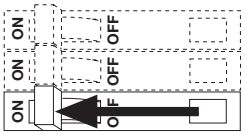
3) LED Tape Light / Fixture

3 WIRE POWER SUPPLY.



4 TURN POWER ON AT CIRCUIT BREAKER

Install Additional Components, Verify Connections and turn main power ON at breaker.



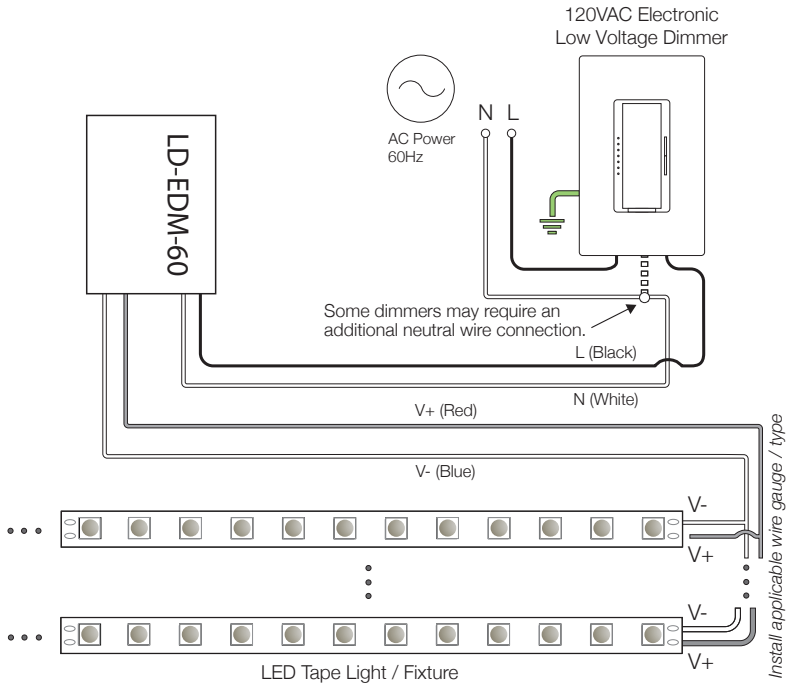
SYSTEM WORKING IMPROPERLY?

Turn power OFF at circuit breaker and verify all connections.
Review WIRING and TROUBLESHOOTING

WIRING DIAGRAMS

The following diagrams are provided as example system designs. Install in accordance with national and local electrical code regulations.

Install a compatible electronic low voltage dimmer switch. See dimmer switch manufacturer installation guide for complete wiring instructions.



Be sure to match driver output voltage to load voltage.

TROUBLESHOOTING

Fixture does not illuminate	• See 'Wiring Diagrams' and installation guides of all components. • Ensure the system is wired correctly and polarities are correct. • Ensure the power supply and fixture have the same voltage specifications (12V &12V or 24V & 24V).
Fixture is flashing or flickering	• Ensure all connections are properly secured. • If flickering happens at minimum dimming, adjust bottom level of dimmer. • If a short flashing happens during startup, adjust bottom level of dimmer. • Ensure the minimum loading are connected. • Ensure a compatible dimming control is installed and wired correctly.
Fixture does not dim	• Ensure a compatible constant voltage dimmable fixture is installed. • Ensure a compatible dimming control is installed and wired correctly.
Different fixture types do not dim in sync	• Different fixture types have different circuit designs and may react differently when dimmed. Ensure each fixture type is installed on a separate dimmable power supply for best performance.
Installation Trips Main Breaker	• Check wiring for short circuit. If breaker continues to trip there may be a short in the power supply. Call customer support for a replacement power supply. • Check AFCI for faults. • Check for neutral or ground faults.

DIMMABLE COMPATIBILITY LIST

Dimmer	LD-EDM-60-12	LD-EDM-60-24
Lutron MACL-153M	**X**	**X**
Leviton DSE06-10Z	**X**	**X**
Lutron MA-PRO *1,2,3	**X**	**X**
Legrand RH703 *1,3	**X**	**X**

Dimmer Notes:
Recommended settings for optimal dimming performance.
*1 Adjust low end trim to improve dimmed output performance as needed.
*2 Adjust high end trim to improve high output performance as needed.
*3 Adjust phase dimming to Auto or ELV to improve overall dimming.

Performance of the Dimmers may vary within the same series or with different LED load types. Other dimmers may be compatible. Compatibility List may change without prior notice.

The 12/24VDC electronic transformer may have humming noise when connected to triac or MLV / front phase dimmer.