



INSTALLATION INSTRUCTIONS DIMMABLE MAGNETIC DRIVER

LLI-PS-DM-020W
LLI-PS-DM-040W
LLI-PS-DM-060W
LLI-PS-DM-100W
LLI-PS-DM-150W

LLI-PS-DM-150W-CL2
LLI-PS-DM-200W
LLI-PS-DM-300W
LLI-PS-DM-300W-CL2
LLI-PS-DM-600W



DANGER: Prior to installation, disconnect power at the source.

Make sure you have all components listed below:

- Power Supply
- Wire Nuts
- MLV Dimmer

INSTALLATION INSTRUCTIONS

DIMMABLE MAGNETIC DRIVER

Please read all steps before beginning the installation.

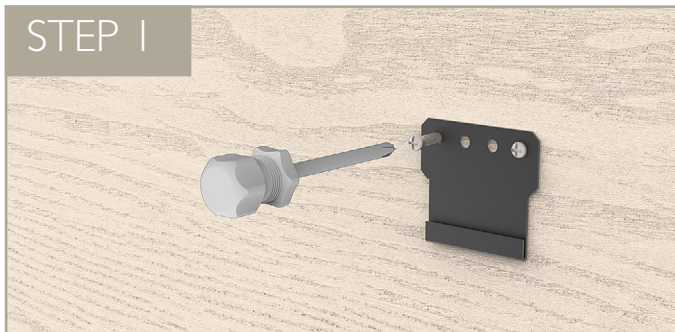
- **WARNING:** These products may represent a potential shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, local electrical codes and the National Electric Code (NEC).
- LLIA's dimmable magnetic power supplies are UL listed and carry a NEMA 3 rating. Refer to specification sheet for IP rating.
- If dimming is desired, use with a MLV (magnetic low voltage) dimmer only..
- Do not use if there is any damage to the unit or to the wiring/insulation. Inspect periodically.
- Ensure wires are in compliance with local electrical codes.
- The driver must be mounted in an area with at least 15 inches of free flow air space for ventilation.
- Do not install driver in hot environments or near heat-radiating objects.
- Ambient temperature should not exceed 110°F or 50°C.
- Recommended load is 80% for optimal performance and lifespan.

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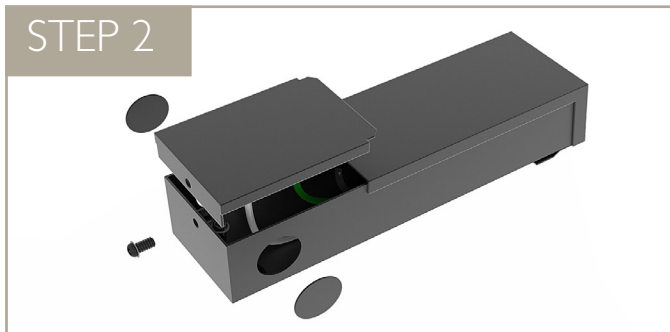
Power Supply Installation

STEP 1



Attach the mounting plate to the mounting surface with two screws. Vertical installation is required for outdoor installation to maintain NEMA 3 rating.

STEP 2



Open the wiring compartment and remove the knockouts for input and output wiring methods.

STEP 3



Hang power supply on mounting plate and connect conduits for input/output wiring.

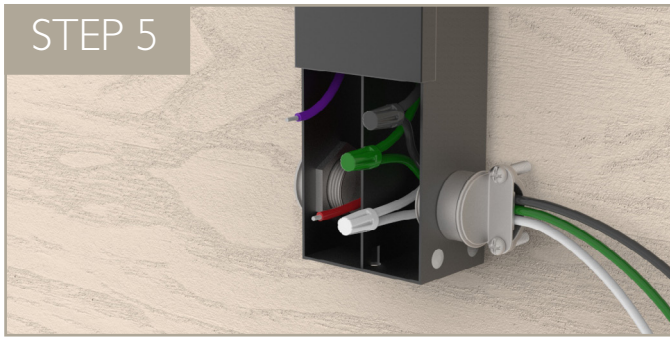
STEP 4



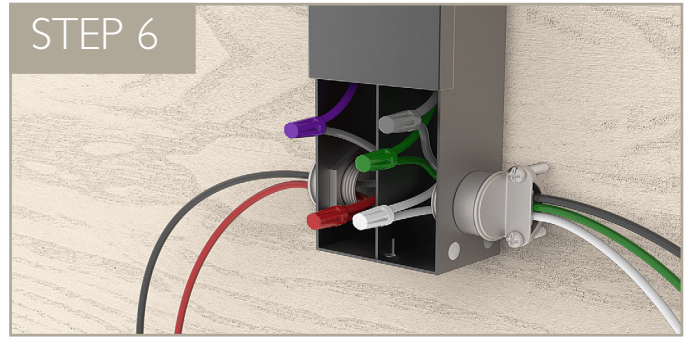
Input Connection: Connect your AC power line and neutral wires to the black (line) and white (neutral) input wires of the driver. 277v model: orange wire is line, white is neutral.

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Grounding: The internal transformer assembly is grounded to the enclosure. The enclosure should be grounded in accordance with NEC and local electrical code. Connect the green wire of the transformer to the ground.



Output Connection: Connect your load wires to the red (+) and blue/purple (-) secondary wires of the transformer. Ensure to connect to the proper polarity.

IMPORTANT: Use only UL rated connectors and wire nuts. Ensure all connections are tight.

NOTE: Must be operated using magnetic low voltage (MLV) dimmer.
Reference Dimmer compatibility chart for dimmer selection.

Low Voltage Wire Gauge Chart

12V DC Voltage Drop and Wire Length (ft.) Distance Chart

Power (W)		10W	20W	30W	40W	50W	60W	70W	80W	90W	100W	110W	120W
Wire Gauge	#18	47'	23'	16'	12'	9'	8'	7'	6'	5'	5'	4'	4'
	#16	75'	37'	25'	19'	15'	12'	11'	9'	8'	7'	7'	6'
	#14	120'	59'	40'	30'	24'	20'	17'	15'	13'	12'	11'	10'
	#12	188'	94'	63'	47'	37'	31'	27'	23'	21'	19'	17'	16'
	#10	301'	150'	100'	76'	60'	50'	43'	38'	33'	30'	27'	25'

24V DC Voltage Drop and Wire Length (ft.) Distance Chart

Wire Gauge	Power (W)	10W	20W	30W	40W	50W	60W	70W	80W	90W	100W	110W	120W
	#18	189'	94'	63'	47'	38'	31'	27'	24'	21'	19'	17'	16'
	#16	300'	149'	100'	76'	60'	50'	43'	37'	33'	30'	27'	25'
	#14	478'	238'	159'	120'	95'	79'	68'	60'	53'	48'	43'	40'
	#12	753'	274'	250'	189'	150'	125'	108'	94'	83'	75'	68'	63'
	#10	1205'	599'	400'	303'	240'	200'	172'	150'	133'	120'	109'	100'