

M-Series | 12VDC Installation Guide

20W – 300W

Magnetic DC Drivers (20W – 60W are Class 2)



General

The transformer is to be installed in accordance with Article 450 of the National Electric Code (NEC). The transformer must be installed in a well-ventilated area, free from explosive gases and vapors. Proper operation requires for free flow of air. Since this transformer is hardwired, it should only be installed by a qualified electrician.

Precautions Before Installation

Check the label and ensure the transformer has the proper input voltage and wattage. Check the wire markings to ensure they match the wiring diagram, below.

Mounting

Select a suitable location capable of supporting the weight of the transformer. Use the two keyholes in the transformer case to mount it. It is recommended that the transformer is mounted vertically, with the wiring compartment pointing downward. **If you are installing multiple drivers, keep a minimum space of 5" between each driver.**

Voltage Drop

Voltage drop occurs in all lighting systems. Use appropriately sized cable, center the M-Series Magnetic Driver when possible or make multiple runs for better coverage. For a convenient voltage drop calculation chart visit magnitudeinc.com and click on "RESOURCES" tab or click on the following link: [Voltage Drop & Wire Length Distance](#).

Quick Specs

Input Voltage	120V AC
Output Voltage	12V DC
Max. Ambient Temp.	-30°C to 45°C
Enclosure	NEMA 3R - Dry or Damp
Min. install. space between drivers	5"

Input Connections / Grounding

Remove the wiring compartment knockouts and install strain reliefs. With the power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections, use only UL Listed wire nuts and connectors of suitable size and type. The transformer case **MUST** be grounded in accordance with the NEC. Connect the ground wire to the transformer's green wire.

Output Connections

Bring the wires of the light fixture through the other open knockout and connect them to the transformer wires – positive (+) to the red wire and negative (-) to the blue wire.

Dimming

Dimmable with any standard MLV TRIAC (Leading Edge) dimmer switch. The dimmer switch is to be installed on the Input (120V AC) side of the driver. 50% load is required if not being used with a dimmer. **For more dimmer compatibility information, scan the QR Code at right.** →



↓ WIRING DIAGRAM ↓

