

# AC & DC Power Options

The following chart lists key information about AC and DC power options, as well as common applications and helpful tips when using MP Lighting products. For more info, please contact our Sales or Quotations department at 1-877-708-1184.

## AC Transformers

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- Easier to use when renovating/ remodeling spaces; do not need to access wires behind drywall
- Can easily be dimmed by replacing the standard light switch with a corresponding dimmer switch
- Residential electricians are familiar with installing AC transformers (parallel wiring)
- Wiring distances tend to be shorter, which is suitable for smaller projects
- Less energy efficient when compared to DC drivers
- Longer life span when compared to DC drivers
- Physically larger when compared to DC drivers
- Greater potential for audible noise
- Magnetic AC transformers may be more expensive than Constant Current LED drivers, but can power more fixtures

## AC Transformers & MP Fixtures

- For use with select MP Fixtures only – consult fixture specification sheet for details
- Standard input for AC transformers is 120V; some 277V options are available
- All MP transformers are available with an optional enclosure
- When used outdoors, AC transformers must be installed in a dry-rated enclosure
- MP recommends that transformers are only loaded up to 50% of the listed maximum output wattage when using LED fixtures. Do not fully load the transformer.

## Common Applications

- Residential renovations

## DC Drivers

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- Easier to use in new construction as the walls are already exposed, allowing access to wires, dimmers, controls, etc.
- Compatible with high-end dimming controls (0-10V, timers, motion sensors, light harvesting, etc.)
- Commercial/ Journeyman electricians are more familiar with 0-10V dimming
- Wiring distances tend to be longer, which is suitable for larger projects
- More energy efficient when compared to AC transformers – DC power options provide nearly twice as much light while consuming the same amount of power
- Shorter life span when compared to AC transformers
- Physically smaller when compared to AC transformers
- Constant current LED drivers may be less expensive than magnetic AC transformers, but will power fewer fixtures

## DC Drivers & MP Fixtures

- DC Drivers work with all MP LED fixtures
- Some drivers have universal input (120-277V), some are 120V only, and some are 277V only; please take care to order the correct input voltage
- All MP Drivers are available with an optional enclosure
- Constant voltage drivers may require a dimming module
- Some constant current drivers are dimmable (16W & 18W) with ELV dimming, which is easier to install than 0-10V dimming
- MP recommends that drivers are only loaded up to 75% of the listed maximum output wattage. Do not fully load the driver.

## Common Applications

- New construction, commercial buildings, restaurants, hotels, etc.

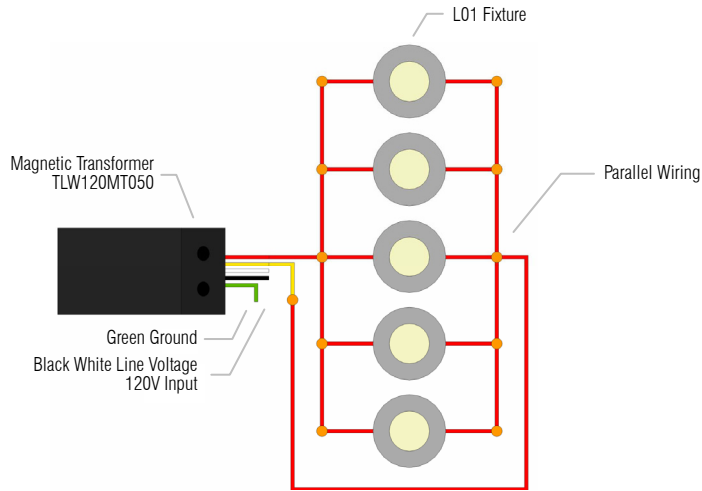
# AC & DC Power Options

The following diagrams show an example of the wiring layouts for AC Transformers or DC Drivers (Series and Parallel Wiring). For more info, please contact our Sales or Quotations department at 1-877-708-1184.

## AC Transformers

### MAGNET TRANSFORMER

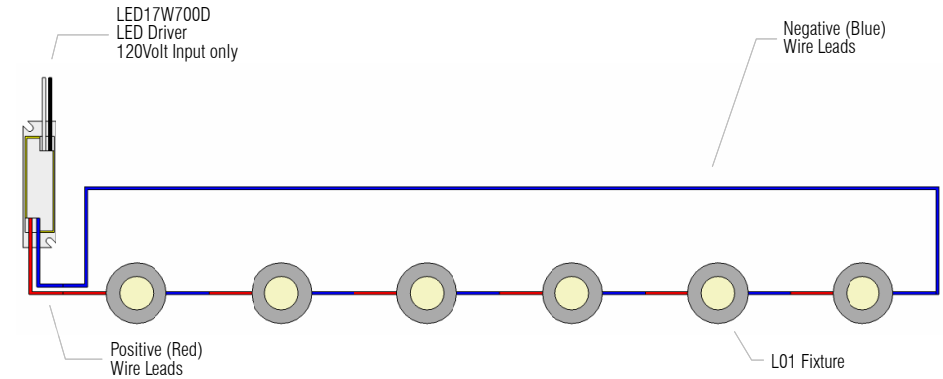
L01 with Magnetic Transformer Wiring Layout



## DC Drivers

### SERIES WIRING

17W Driver with 6 x 2.5W LED's



### PARALLEL WIRING

L05 - 7.5W with 60W Driver

