

# MX1 High Power Series

24VDC, Compact Dimmable J-Box  
LED Driver



Dimmable



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## 24VDC, Compact Dimmable J-Box LED Driver



### Features

- The smallest High-Power dimmable LED drivers in the market
- Built-in junction box
- IP65 - Suitable for dry and wet locations
- Dimmable with any CLF/LED/MLV/ELV (leading or trailing edge) dimmer switch
- Smooth, flicker-free dimming
- Overload and short circuits protection
- 90% Efficiency @ Full Load



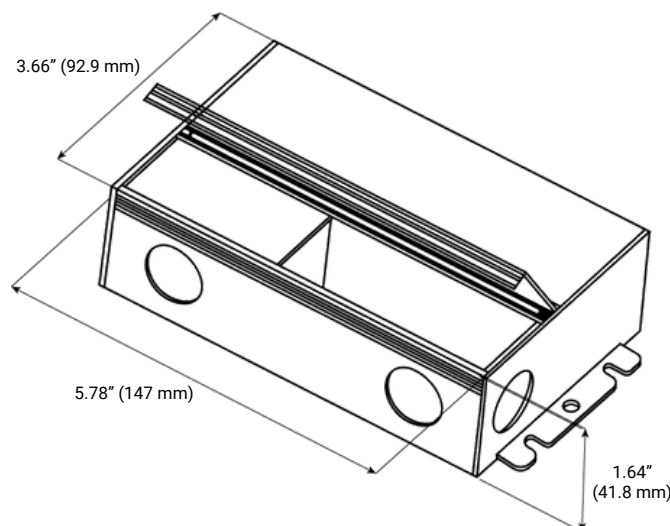
### Dimming

|                            |                         |
|----------------------------|-------------------------|
| <b>Dimming Protocol:</b>   | Triac / ELV (Phase cut) |
| <b>Min. Dimming Level:</b> | 1%                      |
| <b>Dim to Off:</b>         | Yes                     |
| <b>Dimming Curve:</b>      | Linear                  |

### Applications

- LED strip
- LED tape
- Cove lights
- Linear lights
- Puck lights

### Mechanical Overview



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## Specifications

| Input                | Ordering Code: | MX1-150W-24VDC     | MX1-200W-24VDC     | MX1-300W-24VDC     |
|----------------------|----------------|--------------------|--------------------|--------------------|
| Input Voltage Range: |                | 120VAC +/- 5%      | 120VAC +/- 5%      | 120VAC +/- 5%      |
| Input Frequency:     |                | 60Hz               | 60Hz               | 60Hz               |
| Input Current:       |                | 2.6A max           | 2.6A max           | 2.6A max           |
| Inrush Current:      |                | 12A                | 12A                | 13A                |
| Efficiency:          |                | 89%                | 90%                | 90%                |
| Power Factor:        |                | 0.94               | 0.94               | 0.94               |
| THD:                 |                | < 20% (@100% load) | < 20% (@100% load) | < 20% (@100% load) |

## Output

|                            |       |       |       |
|----------------------------|-------|-------|-------|
| Output Voltage:            | 24VDC | 24VDC | 24VDC |
| Max Load:                  | 150W  | 200W  | 300W  |
| Output Current @ Max Load: | 6.25A | 8.33A | 12.5A |
| Turn on delay time:        | 35ms  | 35ms  | 35ms  |

## Environmental

|                             |                              |                              |                              |
|-----------------------------|------------------------------|------------------------------|------------------------------|
| Operating Ambient Temp.:    | -40°F - 104°F (-40°C - 40°C) | -40°F - 104°F (-40°C - 40°C) | -40°F - 104°F (-40°C - 40°C) |
| Maximum Case Temp. (Tcase): | 90°C                         | 90°C                         | 90°C                         |
| Ingress Protection (IP):    | IP65                         | IP65                         | IP65                         |
| Cover type:                 | Screwless                    | Screwless                    | Screwless                    |
| Expected Lifetime:          | >50,000                      | >50,000                      | >50,000                      |

## Protection

|                           |                   |                   |                   |
|---------------------------|-------------------|-------------------|-------------------|
| Over Temp Protection:     | Yes / Hiccup Mode | Yes / Hiccup Mode | Yes / Hiccup Mode |
| Over Load Protection:     | Yes / Hiccup Mode | Yes / Hiccup Mode | Yes / Hiccup Mode |
| Short Circuit Protection: | Yes / Hiccup Mode | Yes / Hiccup Mode | Yes / Hiccup Mode |

## Enclosure

|                  |                       |                       |                       |
|------------------|-----------------------|-----------------------|-----------------------|
| Dimensions:      | 3.85" x 1.64" x 6.57" | 3.85" x 1.64" x 6.57" | 3.85" x 1.64" x 6.57" |
| Material:        | Aluminum              | Aluminum              | Aluminum              |
| Finish:          | Black Powder Coat     | Black Powder Coat     | Black Powder Coat     |
| Connection type: | Lead Wire / J-box     | Lead Wire / J-box     | Lead Wire / J-box     |
| Weight:          | 2.05lbs               | 2.05lbs               | 2.05lbs               |

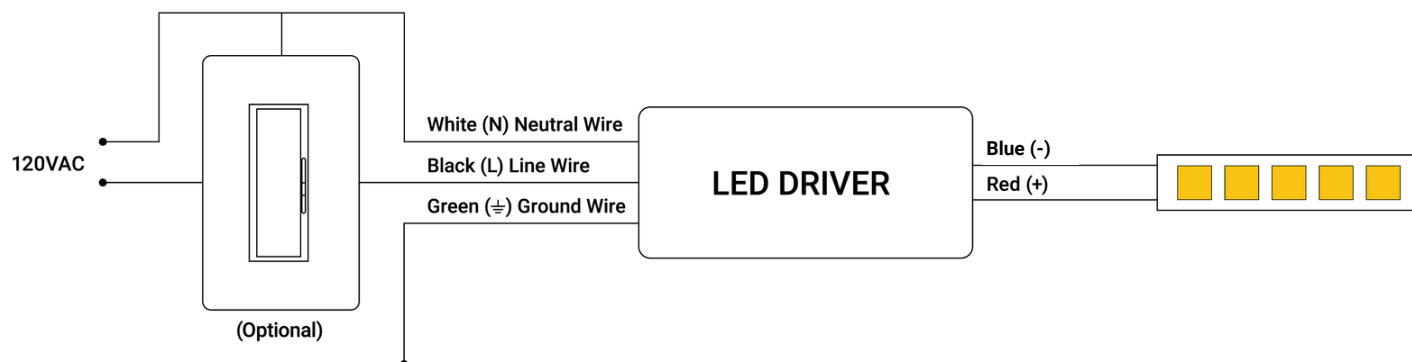
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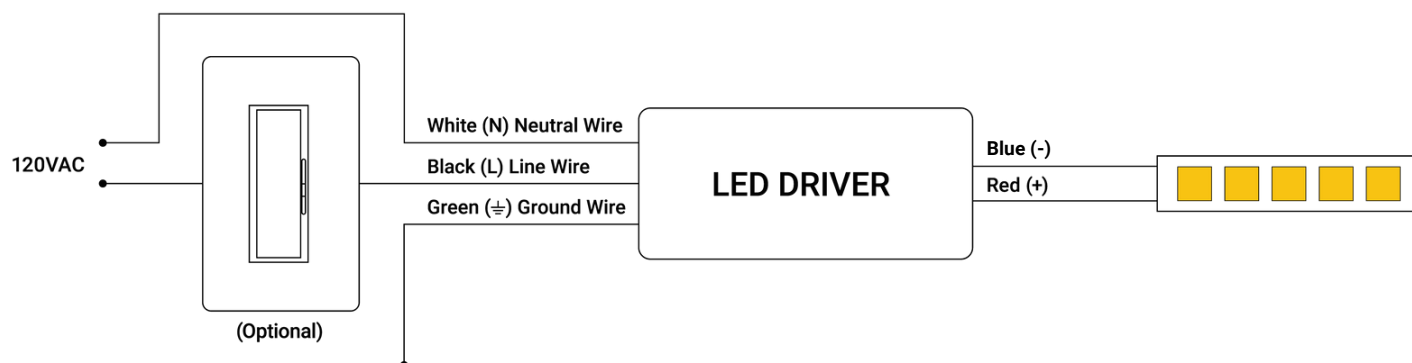


## Wiring Diagrams

### ELV



### TRIAC / MLV



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## Mechanical Diagrams

