

# XRD Series

12/24VDC Super Compact Phase Cut  
Dimmable Class 2, J-Box LED Drivers

12V  
DC

24V  
DC



Dimmable



LISTED  
Class 2



# XRD Series

## 12/24VDC Super Compact Phase Cut Dimmable Class 2, J-Box LED Driver



### Features

- Most compact dimmable junction box driver on the market
- Dimmable with TRIAC, MLV, or ELV dimmers (leading or trailing edge)
- Works seamlessly with COB tape lights
- Flicker-free dimming down to 1%
- No minimum load required
- Full load capable – no derating needed
- 89% efficiency at full load
- UL Listed – Class 2 compliant



Built-In JBox

### Dimming

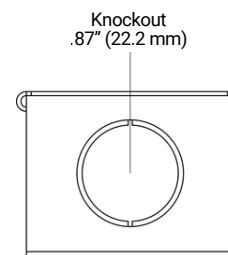
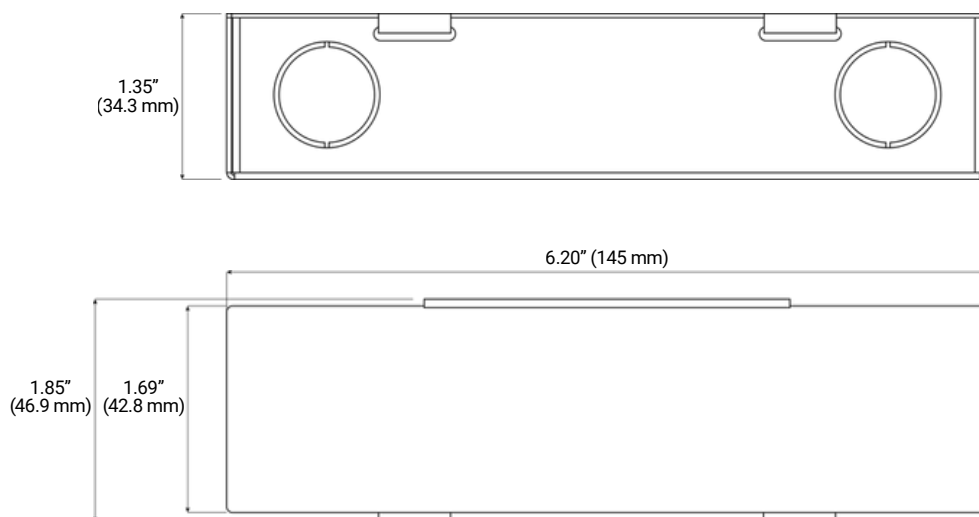
|                            |                   |
|----------------------------|-------------------|
| <b>Dimming Protocol:</b>   | TRIAC / MLV / ELV |
| <b>Min. Dimming Level:</b> | 1%                |
| <b>Dim to Off:</b>         | Yes               |
| <b>Dimming Curve:</b>      | Linear            |

### Applications

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

Not compatible with Receivers / Controllers.

### Mechanical Diagrams



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## Specifications

| Input                | Ordering Code: | XRD-60W-24VDC      | XRD-75W-24VDC      | XRD-96W-24VDC      |
|----------------------|----------------|--------------------|--------------------|--------------------|
| Input Voltage Range: |                | 115VAC +/- 3%      | 115VAC +/- 3%      | 115VAC +/- 3%      |
| Input Frequency:     |                | 60Hz               | 60Hz               | 60Hz               |
| Input Current:       |                | 1.2A max           | 1.2A max           | 1.2A max           |
| Inrush Current:      |                | 12A                | 12A                | 13A                |
| Efficiency:          |                | 89%                | 89%                | 89%                |
| Power Factor:        |                | 0.94               | 0.94               | 0.94               |
| THD:                 |                | < 20% (@100% load) | < 20% (@100% load) | < 20% (@100% load) |

## Output

|                            |              |              |              |
|----------------------------|--------------|--------------|--------------|
| Output Voltage:            | <b>24VDC</b> | <b>24VDC</b> | <b>24VDC</b> |
| Max Load:                  | <b>60W</b>   | <b>75W</b>   | <b>96W</b>   |
| Output Current @ Max Load: | 2.5A         | 3.3A         | 4.1A         |
| 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):    | IP23                         | IP23                         | IP23                         |
| Cover type:                 | Screwless                    | Screwless                    | Screwless                    |
| Expected Lifetime:          | >50,000                      | >50,000                      | >50,000                      |

## Protection

|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| Over Temp Protection:     | Hiccup Mode, auto Recovery after fault condition is removed |
| Over Load Protection:     | Hiccup Mode, auto Recovery after fault condition is removed |
| Short Circuit Protection: | Hiccup Mode, auto Recovery after fault condition is removed |

## Enclosure

|                  |                               |                   |                   |
|------------------|-------------------------------|-------------------|-------------------|
| Dimensions:      | 6.20" x 1.85" x 1.35" (L*W*H) |                   |                   |
| Material:        | Sheet Metal                   | Sheet Metal       | Sheet Metal       |
| 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:          | 0.9lbs                        | 0.9lbs            | 0.9lbs            |

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## Specifications

| Input                | Ordering Code: | XRD-40W-24VDC      | XRD-40W-12VDC      | XRD-60W-12VDC      |
|----------------------|----------------|--------------------|--------------------|--------------------|
| Input Voltage Range: |                | 115VAC +/- 3%      | 115VAC +/- 3%      | 115VAC +/- 3%      |
| Input Frequency:     |                | 60Hz               | 60Hz               | 60Hz               |
| Input Current:       |                | 1.2A max           | 1.2A max           | 1.2A max           |
| Inrush Current:      |                | 12A                | 12A                | 13A                |
| Efficiency:          |                | 89%                | 89%                | 89%                |
| Power Factor:        |                | 0.94               | 0.94               | 0.94               |
| THD:                 |                | < 20% (@100% load) | < 20% (@100% load) | < 20% (@100% load) |

## Output

|                            |       |       |       |
|----------------------------|-------|-------|-------|
| Output Voltage:            | 24VDC | 12VDC | 12VDC |
| Max Load:                  | 40W   | 40W   | 60W   |
| Output Current @ Max Load: | 1.66A | 3.33A | 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):    | IP23                         | IP23                         | IP23                         |
| Cover type:                 | Screwless                    | Screwless                    | Screwless                    |
| Expected Lifetime:          | >50,000                      | >50,000                      | >50,000                      |

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| Connection type: | Lead Wire / J-box             | Lead Wire / J-box | Lead Wire / J-box |
| Weight:          | 0.9lbs                        | 0.9lbs            | 0.9lbs            |

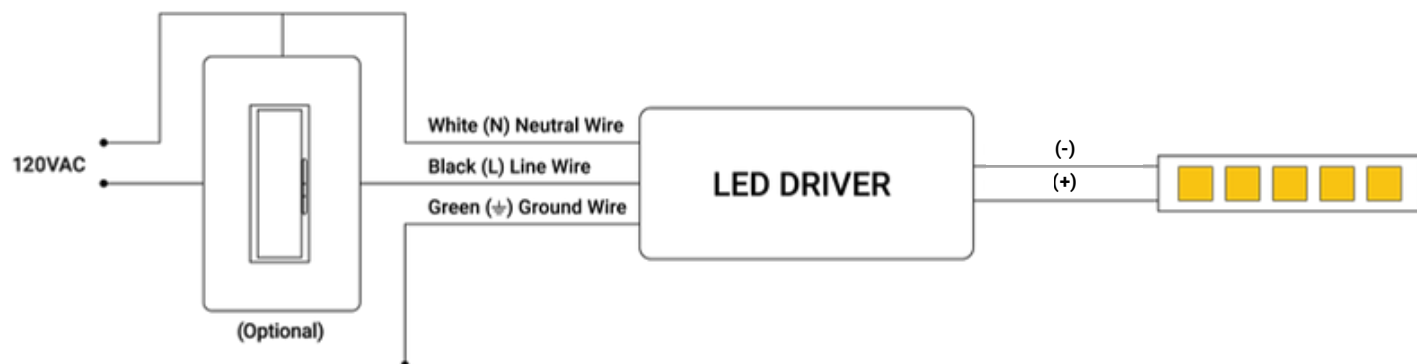
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## Wiring Diagrams

### ELV



### TRIAC / MLV

