

SOLIDRIVE MAX

P/N: VPD

Constant Voltage Phase-Cut ELV/MLV or 0-10V Dimmable LED Drivers

The SoliDrive Max is a Constant Voltage Class 2 rated UL Listed driver. The drivers with enclosures have a built-in junction box on both the input and output. These drivers are IP66 and UL2043 plenum rated and are suitable for both indoor and outdoor installations. With universal input voltage ranging from 120 to 277VAC, the SoliDrive Max Driver is designed for residential, commercial and industrial applications. The dimmers deliver smooth flicker-free dimming down to 1% with most LEDs and compatible with a wide variety of dimmers. As always, a 5-year warranty is a standard on all of Magnitude's products.

Key Features

- Forward & Reverse Phase-Cut Dimming or 0-10V Dimming
- Smooth Flicker-Free Dimming, Down To 1%
- Universal Input Voltage – 120 to 277VAC
- UL Listed Enclosure – With Built-In Junction Boxes
- IP66 – For Both Indoor & Outdoor Use
- Class 2, Class P
- Hiccup Mode Protection For Short Circuit & Over-Temperature
- Overload Protection



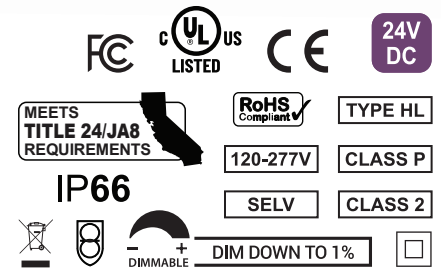
UL without Junction Box

7.50" L x 2.36" W x 1.40" H



UL with Integrated Junction Box

12.10" L x 2.36" W x 1.40" H



Product Name: SoliDrive Max

Description: Constant Voltage 3-in-1 MLV/ELV, 0-10V Dimmable LED Driver

Installation: Can have integrated junction box with multiple 7/8" knock-outs or no junction box with wire leads

Driver Type: Class 2 Single Channel

Dimming: Phase-cut dimming down to 1% with both Leading Edge (MLV) and Trailing Edge (ELV) dimmers or 0-10V dimming

Input Voltage: Universal 120VAC to 277VAC, 50/60Hz

Output Voltage: 24VDC

Wattage: 30W / 60W / 96W

IP Rating: IP66

Listing: UL Listed

Certifications: UL8750, UL2043 Plenum Rated

Warranty: 5-Year

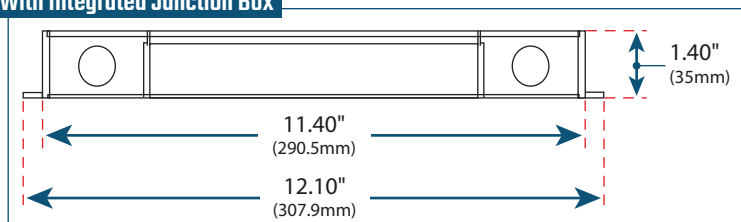
Ordering Guide

Example: VPD96L24DC

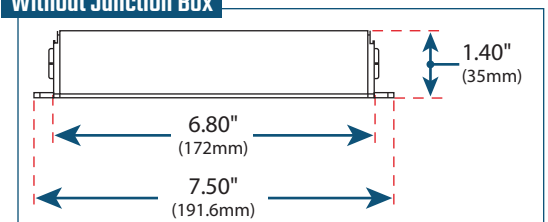
VPD	DC		
TYPE	MAX POWER	ENCLOSURE	OUTPUT
VPD	30 - 30W 60 - 60W 96 - 96W	L - With Junction Box R - Without Junction Box	24 - 24VDC

	With Junction Box	Without Junction Box
Length	12.10" (307.9mm)	7.50" (191.6mm)
Width	2.36" (59.9mm)	2.36" (59.9mm)
Height	1.40" (35mm)	1.40" (35mm)

With Integrated Junction Box



Without Junction Box



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Specifications

Input	30W	60W	96W
Input Voltage Range:	120 - 277VAC ± 10%	120 - 277VAC ± 10%	120 - 277VAC ± 10%
Input Frequency:	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current:	0.98A Max	0.98A Max	0.98A Max
Inrush Current:	<40A max @120VAC	<40A max @120VAC	<40A max @120VAC
Efficiency:	> 86% Max	> 86% Max	> 86% Max
Power Factor:	277VAC, >0.90 120VAC, >0.95	277VAC, >0.90 120VAC, >0.95	277VAC, >0.90 120VAC, >0.95
THD:	< 20%	< 20%	< 20%
Output			
Output Voltage:	24VDC	24VDC	24VDC
Max Load:	30W	60W	96W
Output Current @ Max Load:	1.3A	2.6A	4.1A
Output Ripple:	<10%	<10%	<10%
Line Regulation:	± 2.5%	± 2.5%	± 2.5%
Load Regulation:	± 5%	± 5%	± 5%
Turn On Delay Time:	< 0.5 sec	< 0.5 sec	< 0.5 sec
Environmental			
Env. Protection Rating:	IP66	IP66	IP66
Ambient Operating Temp.:	-25°C - +40°C (-13°F - 104°F)	-25°C - +40°C (-13°F - 104°F)	-25°C - +40°C (-13°F - 104°F)
Max Case Temp. (Tcase):	80°C (176°F)	80°C (176°F)	80°C (176°F)
Storage Temperature:	-40°C - +85°C(-40°F - 185°F)	-40°C - +85°C(-40°F - 185°F)	-40°C - +85°C(-40°F - 185°F)
Expected Lifetime:	≥50,000hrs @ Tc ≤75	≥50,000hrs @ Tc ≤75	≥50,000hrs @ Tc ≤75
Audible Noise:	<24dB Class A	<24dB Class A	<24dB Class A
Dimming (Dimming Models Only)			
Dimming Style:	Phase-Cut or 0-10V Dimming	Phase-Cut or 0-10V Dimming	Phase-Cut or 0-10V Dimming
Min. Dimming Level:	1%	1%	1%
Dimming Curve:	Linear	Linear	Linear
Protection			
Over Current Protection:	Yes	Yes	Yes
Over Voltage Protection:	Yes	Yes	Yes
Over Temperature Protection:	Yes / Hiccup Mode	Yes / Hiccup Mode	Yes / Hiccup Mode
Over Load Protection:	Yes / Current Limit	Yes / Current Limit	Yes / Current Limit
Short Circuit Protection:	Yes / Current Limit	Yes / Current Limit	Yes / Current Limit

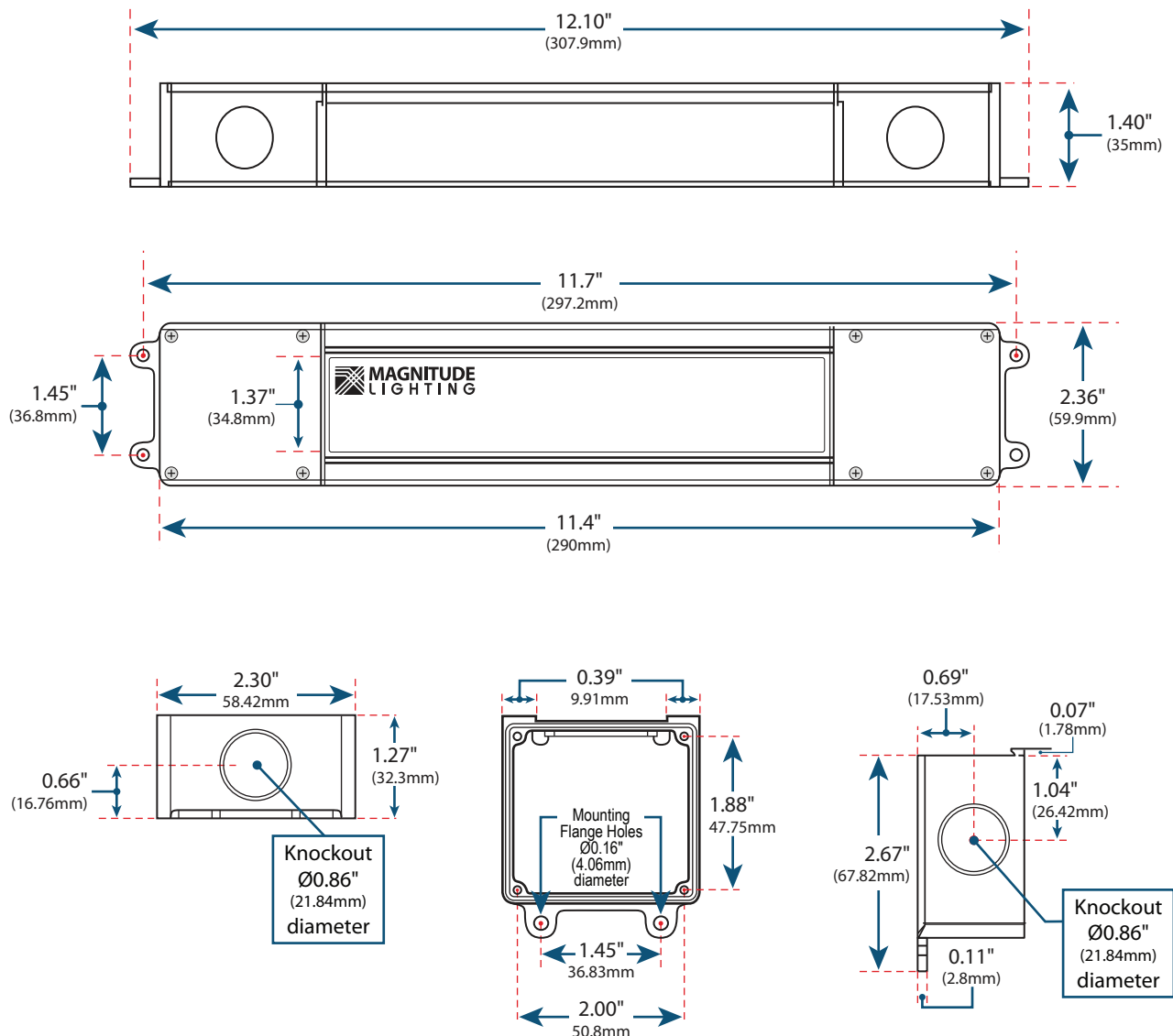
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Mechanical Diagrams

With Integrated Junction Box

(Drawings not to scale)



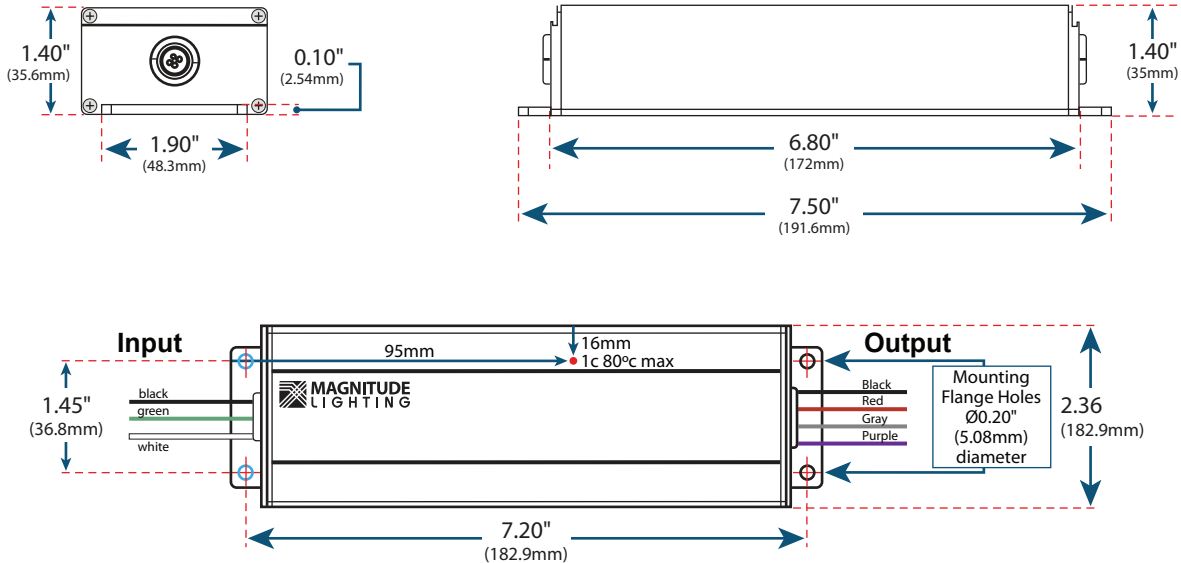
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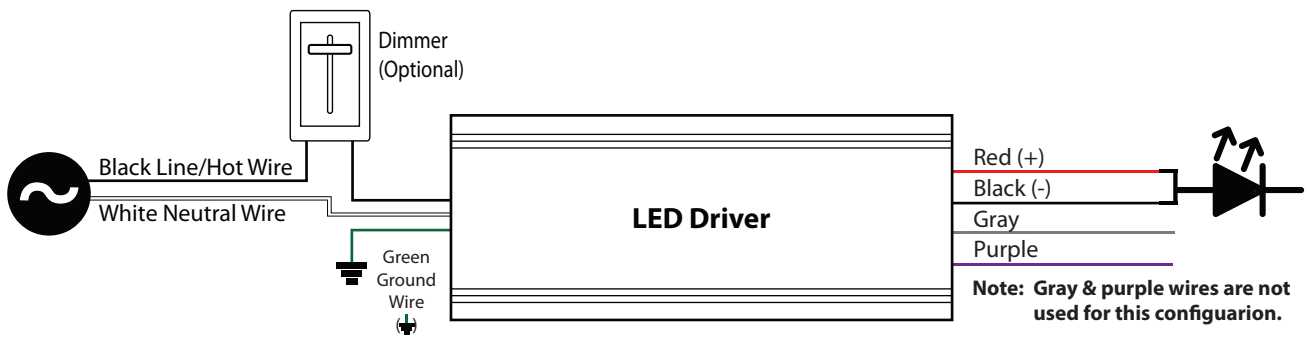


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Wiring Diagrams

Phase-Cut Dimmable Configuration



0-10V Dimmable Configuration

