

Phone: (714) 312-5080 Fax: (714) 312-5070 customercare@magnitudeinc.com

P/N: CV

## **SOLIDRIVE**

### **Constant Voltage Electronic** 0-10V & Non-Dimmable LED Driver

The SOLIDRIVE is an electronic Class 2, 0-10V dimmable LED driver with an available integrated junction box, making it the perfect choice for tape lighting, tube lighting, linear lighting and multiple other commercial lighting applications. The UL enclosure is IP66 and UL2043 plenum rated and are suitable for both indoor and outdoor installations; each includes a separate input and output wiring compartment with three 1/8" knockouts for easy installation. The driver features hiccuup mode, over current and short circuit protection – as well as an efficiency over 84%, resulting in low operating case temperature. The SOLIDRIVE is dimmable down to 1% with a 0-10V dimmer and is also available in a non-dimmable version.

**Installation:** Can have integrated junction box with multiple

<sup>7</sup>/<sub>8</sub>" knock-outs – or no junction box with wire leads

**Driver Type:** Class 2 Single Channel

**Dimming:** 0-10V dimmable down to 1%; non-dimmable available

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

**Output Voltage:** 12, 24, 36, or 48VDC

**Environmental:** Dry & damp

**IP Rating: IP66** 

**Listing:** Available in UL Listed, Class P, Type HL

Certifications: UL8750, UL2043 Plenum Rated

Warranty: 5-Year

	12.1" L x :	2.36" W x 1.40"H
MEETS	CE	C UL US
	-	TYPE HL
RoHS Compliant		CLASS P

SELV 120-277VAC

12 / 24 / 36 / 48VDC

CLASS 2 DIM DOWN TO 1%

**UL** without

Integrated

Junction Box

Junction Box

7.50" L x 2.36" W x 1.40"H

#### SOLIDRIVE is also available in:

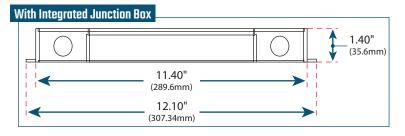
- **JB-SERIES** (Junction Box Series)
- EZJBOX (EZ Junction Box Series)

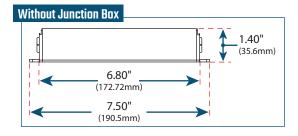
Please refer to our website at Magnitudeinc.com for more details.

Ordering Guide				
CV DC Example: CVN50L12DC				
TYPE	DIMMING	MAX POWER	LISTING	OUTPUT
CV – Constant Voltage	N – Non-Dimming D – Dimming	$30^{1} - 30W$ $50^{2} - 50W$ $60^{1} - 60W$ $96^{3} - 96W$	L - With Junction Box R - Without Junction Box	12 - 12VDC 24 - 24VDC 36 - 36VDC 48 - 48VDC

	With Junction Box	Without Junction Box
Length	12.10" (307.34mm)	7.50" (190.5mm)
Width	2.36" (59.94mm)	2.36" (59.94mm)
Height	1.40" (35.6mm)	1.40" (35.6mm)

<sup>1</sup>24 & 48VDC only <sup>2</sup>12VDC only 324, 36, & 48VDC only







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## **Specifications**

Innut	2014	EOW -	COM	new
Input	30W	50W	60W	96W
Input Voltage Range:	120 - 277VAC ± 10%	120 - 277VAC ± 10%	120 - 277VAC ± 10%	120 - 277VAC ± 10%
Input Frequency:	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current:	0.96A Max (24VDC) 0.96A Max (48VDC)	0.96A Max	0.96A Max	0.96A Max
Inrush Current:	5A Max@120VAC 30A Max@277VAC	6A Max@120VAC 30A Max@277VAC	5A Max@120VAC 30A Max@277VAC	5A Max@120VAC 30A Max@277VAC
Efficiency:	> 84% Max (24VDC) > 84% Max (48VDC)	> 80% Max	> 84% Max	> 84% Max (24VDC) > 84% Max (36VDC) > 84% Max (48VDC)
Power Factor:	> 0.91 (24VDC) > 0.95 (48VDC)	> 0.95	> 0.95	> 0.95
THD:	< 20%	< 20%	< 20%	< 20%
Output				
Output Voltage:	24VDC / 48VDC	12VDC	24VDC	24VDC / 36VDC / 48VDC
Max Load:	30W	50W	60W	96W
Output Current @ Max Load:	1.3A (24VDC) 625mA Max(48VDC)	4.2A	2.6A	4.1A (24VDC) 2.7A (36VDC) 2.0A (48VDC)
Output Ripple:	< 3%	< 3%	< 3%	< 3%
Line Regulation:	< 2%	< 2%	< 2%	< 2%
Load Regulation:	< 3% (24VDC) < 1% (48VDC)	< 5%	< 3%	< 3% (24VDC) < 3% (36VDC) < 1% (48VDC)
Turn On Delay Time:	< 0.3 sec	< 0.3 sec	< 0.3 sec	< 0.3 sec
Environmental				
Env. Protection Rating:	IP66	IP66	IP66	IP66
Ambient Operating Temp.:	-25°C - +40°C	-25°C - +40°C	-25°C - +40°C	-25°C - +40°C
	(-13°F - 104°F)	(-13°F - 104°F)	(-13°F - 104°F)	(-13°F - 104°F)
Max Case Temp. (Tcase):	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)
Storage Temperature:	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
	(-40°F - 185°F)	(-40°F - 185°F)	(-40°F - 185°F)	(-40°F - 185°F)
Expected Lifetime:	50k hours (>65°C) Tc	50k hours (>65°C) Tc	50k hours (>65°C) Tc	50k hours (>65°C) Tc
Audible Noise:	< 24dB Class A	< 24dB Class A	< 24dB Class A	< 24dB Class A
<b>Dimming</b> (Dimming M	lodels Only)			
Dimming Control:	0-10V	0-10V	0-10V	0-10V
Min. Dimming Level:	1%	1%	1%	1%
Dimming Curve:	Linear	Linear	Linear	Linear
Current Consumption:	0.2mA Max Source / Sinc	0.2mA Max Source / Sinc	0.2mA Max Source / Sinc	0.2mA Max Source / Sind
Protection				
	Yes	Yes	Yes	Yes
<b>Over Current Protection:</b>	1 C J			
Over Current Protection: Over Voltage Protection:	Yes	Yes	Yes	Yes
Over Voltage Protection:		Yes Yes / Hiccup Mode	Yes Yes / Hiccup Mode	Yes Yes / Hiccup Mode
	Yes			



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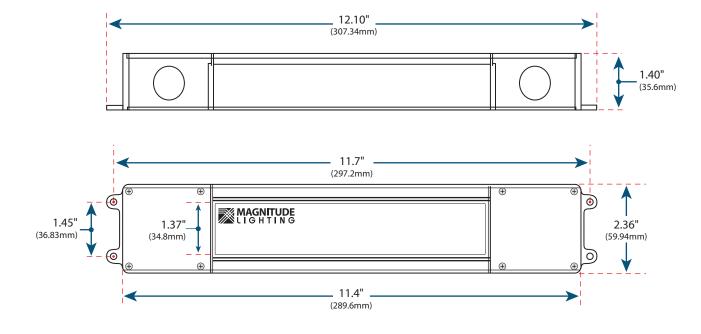
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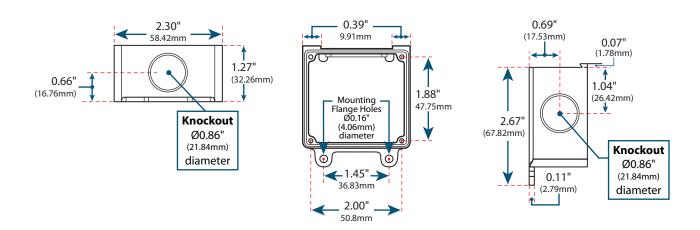
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### **Mechanical Diagrams**

### **With Integrated Junction Box**

(Drawings not to scale)







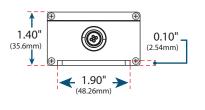
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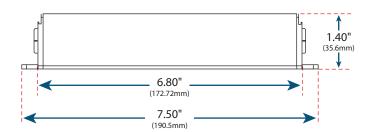
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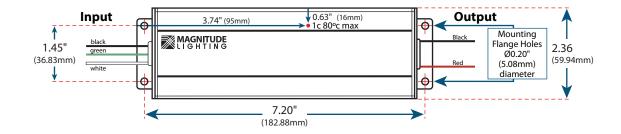
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### **Mechanical Diagrams**

## Without Integrated Junction Box (Drawings not to scale)









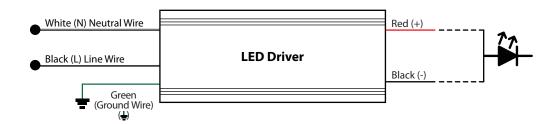
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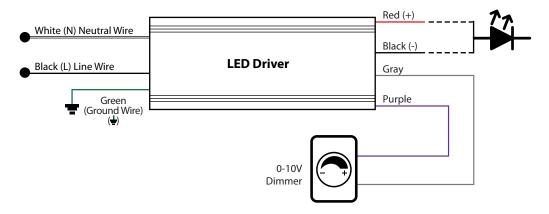
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### **Wiring Diagrams**

#### Non-Dimmable Configuration



#### **Dimmable Configuration**



### **Compatible 0-10V Dimmers**

Dimming	Part Number
Lutron	Diva - DVTV
Lutron	Diva - NFTV
Lutron	Nova T - NTFTV
Leviton	Illumitech - IP7
Watt Stopper	DCLV1
Lightolier Controls	ZP600FAM120
Philips	Sunrise - SR1200ZTUNV

