

# E-SERIES RECOGNIZED

Constant Voltage Electronic  
 Phase-Dimmable LED Driver

## Specification Sheet

The **E-SERIES RECOGNIZED** is an electronic Class 2 dimmable LED driver with an extremely compact low-profile aluminum case, making it the perfect choice for under-cabinet lighting, kick/cove lighting, mirror lighting, and multiple other residential and commercial lighting applications. The driver features auto reset, over current and short circuit protection, as well as an efficiency of over 90% resulting in low operating case temperature. The product line is phase-dimmable down to 1% with leading edge TRIAC dimmers.



- IP67
- 120VAC
- CLASS 2
- 12 / 24VDC
- FC
- UL US
- RoHS Compliant
- DIM DOWN TO 1% DIMMABLE

- Installation:** Wire leads
- Driver Types:** Class 2, Single Channel
- Dimming:** Phase-dimmable down to 1% with leading edge TRIAC dimmer
- Input Voltage:** 120VAC, 50/60Hz
- Output Voltage:** 12VDC or 24VDC
- Environmental:** Wet location
- Listing:** UL Recognized
- Certifications:** UL 8750, CSA C22.2 No. 250 13-14

### Component Signage

- Listing Certification:** UL 879 | CSA C22.2 No. 207-M89
- Warranty:** 5 year

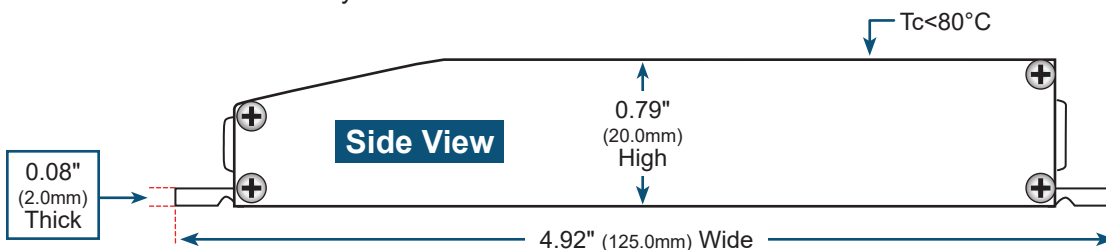
E-SERIES is also available in:

- E-SERIES UL LISTED
- EZJ-Box
- JB-SERIES

Please refer to [magnitudeinc.com](http://magnitudeinc.com) for more information.

### ORDERING GUIDE

Type	Max Power	Listing	Output
<b>E-SERIES</b>	20 – 20W	R – UL Recognized Enclosure	12DC – 12VDC
<b>RECOGNIZED</b>	40 – 40W		24DC – 24VDC
	60 – 60W		
	75 <sup>1</sup> – 75W		
	96 <sup>1</sup> – 96W		
	<sup>1</sup> 24VDC Only		



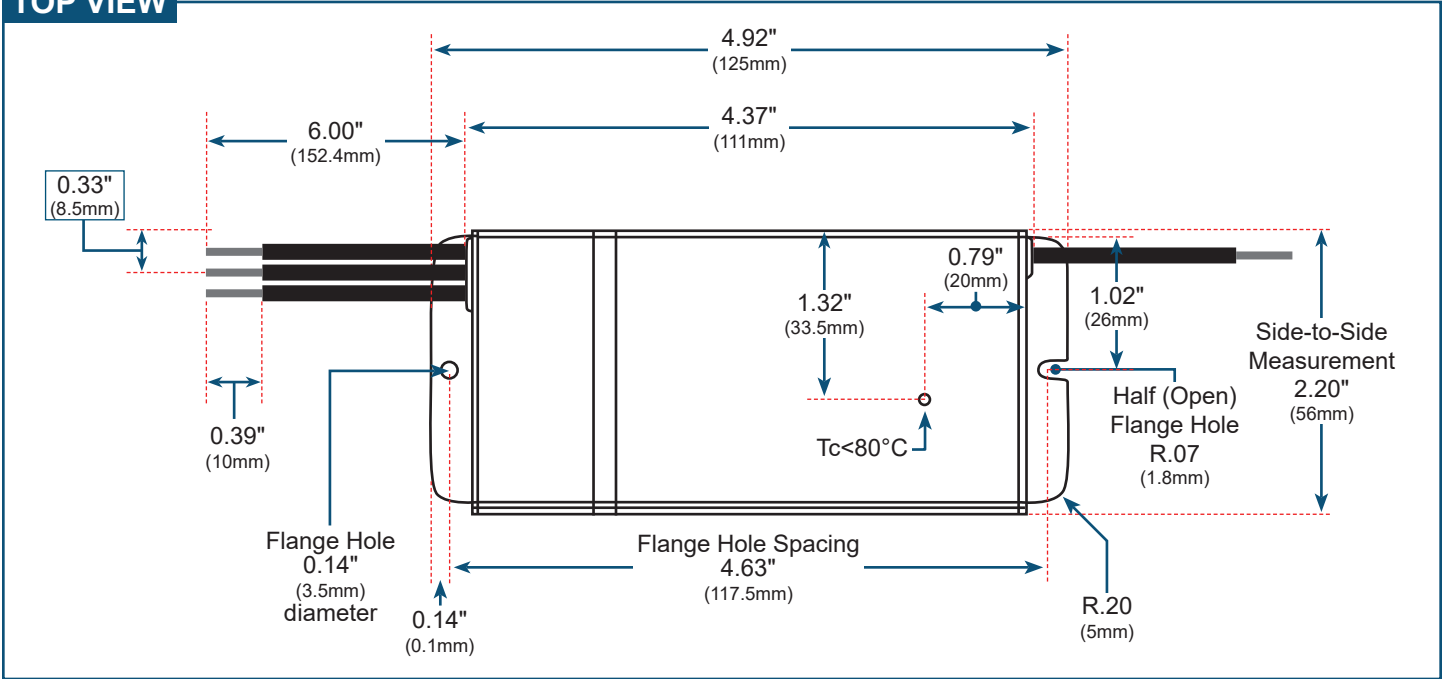
DIMENSIONS	
<b>Length</b>	4.92" (125.0mm)
<b>Width</b>	2.20" (56.0mm)
<b>Height</b>	0.79" (20.0mm)

**SPECIFICATIONS**

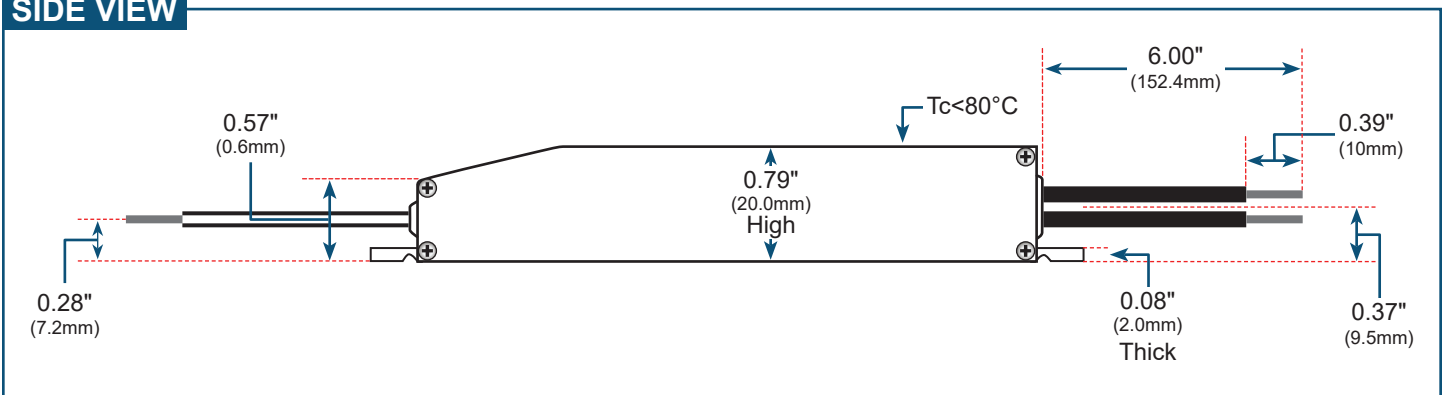
<b>INPUT</b>	<b>20W</b>	<b>40W</b>	<b>60W</b>	<b>75W</b>	<b>96W</b>
<b>Input Voltage Range</b>	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%
<b>Input Frequency</b>	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
<b>Input Current (12VDC)</b>	0.20A@120VAC	0.41A@120VAC	0.61A@120VAC	0.72A@120VAC	0.85A@120VAC
<b>Input Current (24VDC)</b>	0.20A@120VAC	0.41A@120VAC	0.61A@120VAC	0.72A@120VAC	0.85A@120VAC
<b>Efficiency</b>	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	> 90%	> 90%
<b>Power Factor</b>	0.95	0.95	0.95	0.95	0.95
<b>OUTPUT</b>					
<b>Maximum Load</b>	20W	40W	60W	75W	96W
<b>Minimum Load</b>	8W	8W	8W	8W	8W
<b>Output Voltage @ Max. Load</b>	12.0 VDC 24.0 VDC	12.0 VDC 24.0 VDC	12.0 VDC 24.0 VDC	24.0 VDC	24.0 VDC
<b>Output Current @ Max. Load</b>	1.7A (12VDC) 0.90A (24VDC)	3.50A (12 VDC) 1.75A (24VDC)	5.00A (12VDC) 2.63A (24VDC)	3.3A	4.16A
<b>ENVIRONMENTAL</b>					
<b>Maximum Ambient Temp.</b>	-30°C - +40°C (-22°F - 104°F)				
<b>DIMMING</b>					
<b>Minimum Dimming Level</b>	1%	1%	1%	1%	1%
<b>PROTECTION</b>					
<b>Circuit Breaker</b>	Short circuit & over-voltage auto-reset				
<b>MECHANICAL HOUSING</b>					
<b>Primary Leads</b>	18AWG	18AWG	18AWG	18AWG	18AWG
<b>Secondary Leads</b>	14AWG	14AWG	14AWG	14AWG	14AWG
<b>Length</b>	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)
<b>Width</b>	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)
<b>Height</b>	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)
<b>Weight</b>	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)
<b>Housing Material</b>	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
<b>Housing Color</b>	Blue	Blue	Blue	Blue	Blue
<b>Junction Box</b>	No	No	No	No	No
<b>Mounting</b>	One hole flange mount and one half-hole flange mount.				
<b>APPROVAL MARKINGS</b>					
<b>Certifications/Approval Signs</b>	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2

**MECHANICAL DIAGRAMS**

**TOP VIEW**

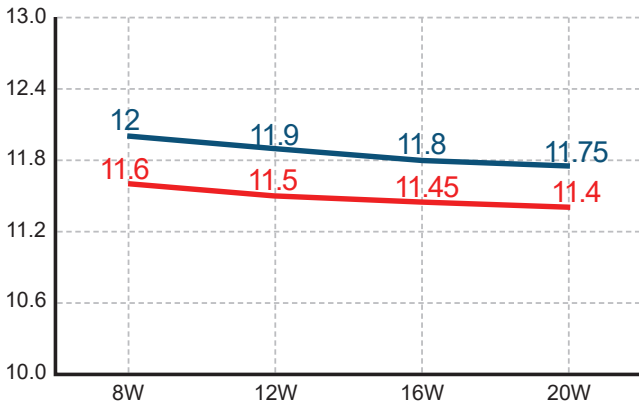


**SIDE VIEW**



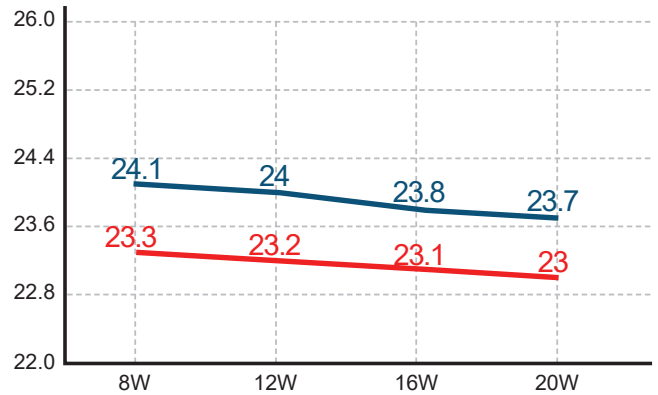
**LOAD REGULATION (20 & 40W)**

**20W (12VDC)**



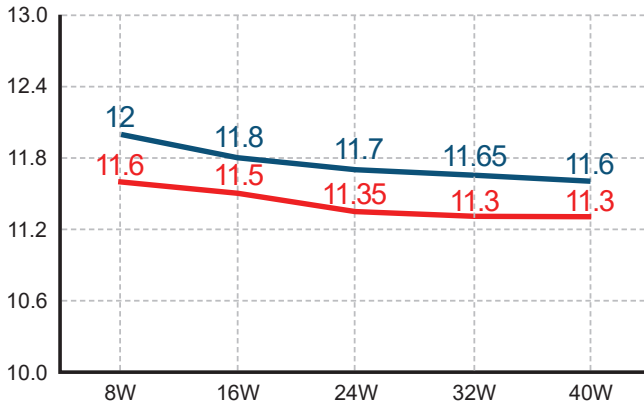
— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

**20W (24VDC)**



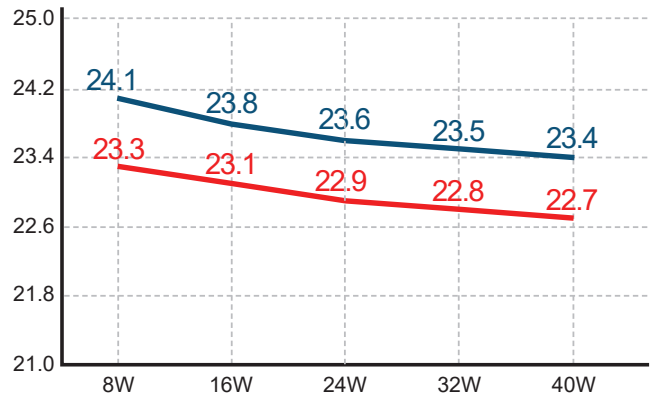
— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

**40W (12VDC)**



— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

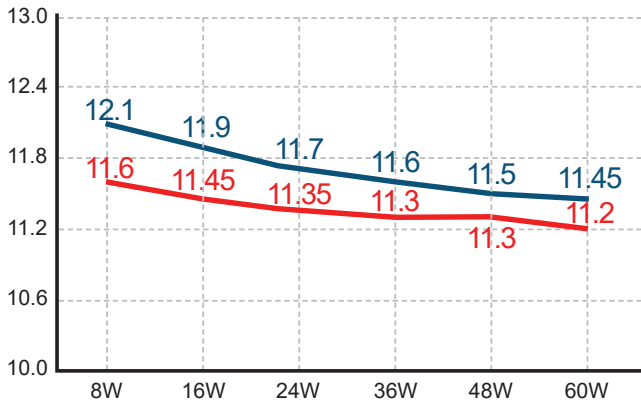
**40W (24VDC)**



— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

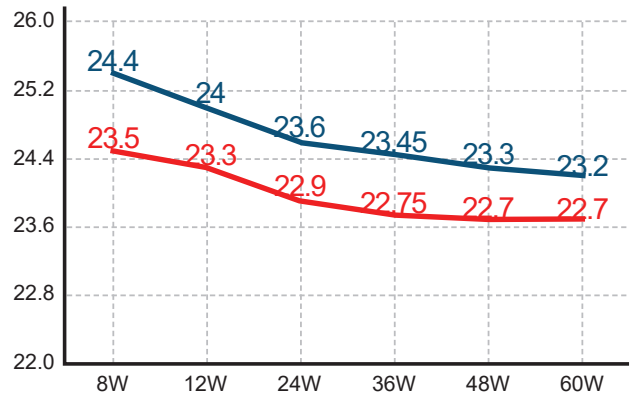
**LOAD REGULATION (60, 75 & 96W)**

**60W (12VDC)**



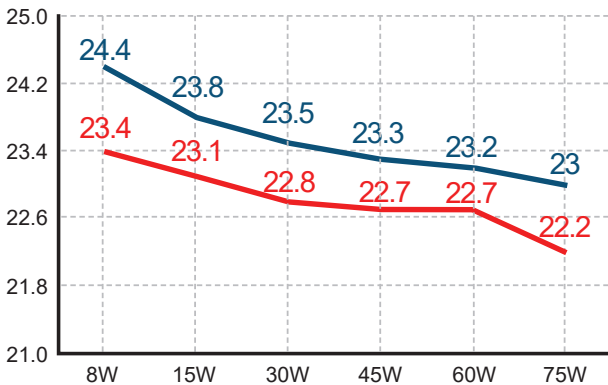
— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

**60W (24VDC)**



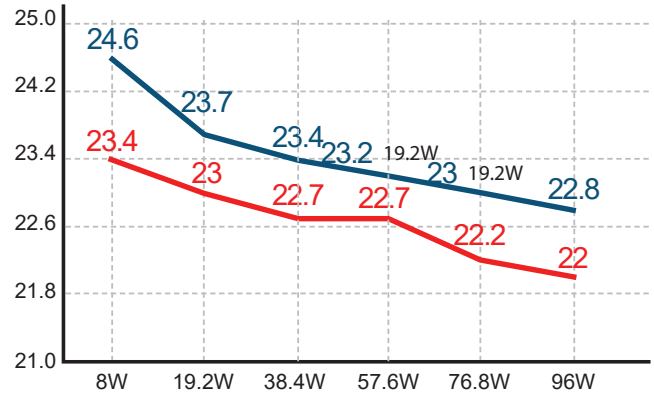
— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

**75W (24VDC)**



— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

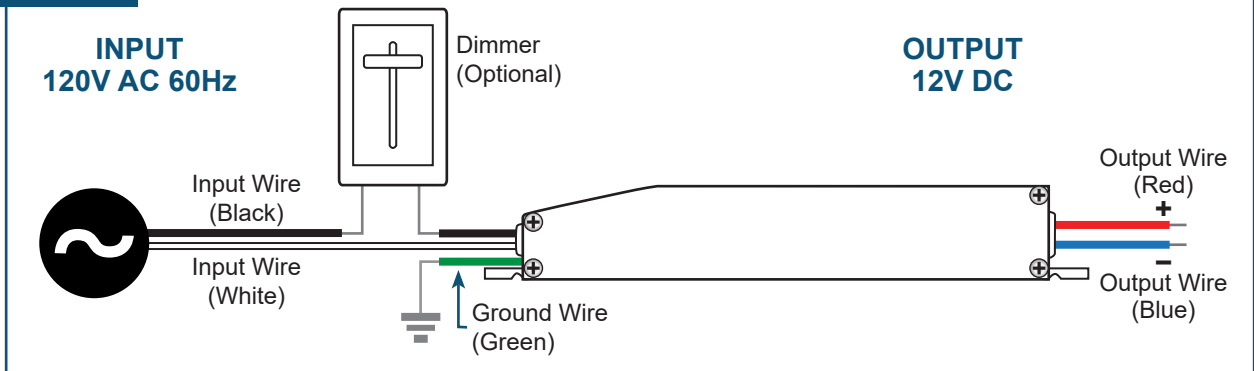
**96W (24VDC)**



— Output Voltage vs. Load  
 — Output Voltage with a typical TRIAC Dimmer (on Max)

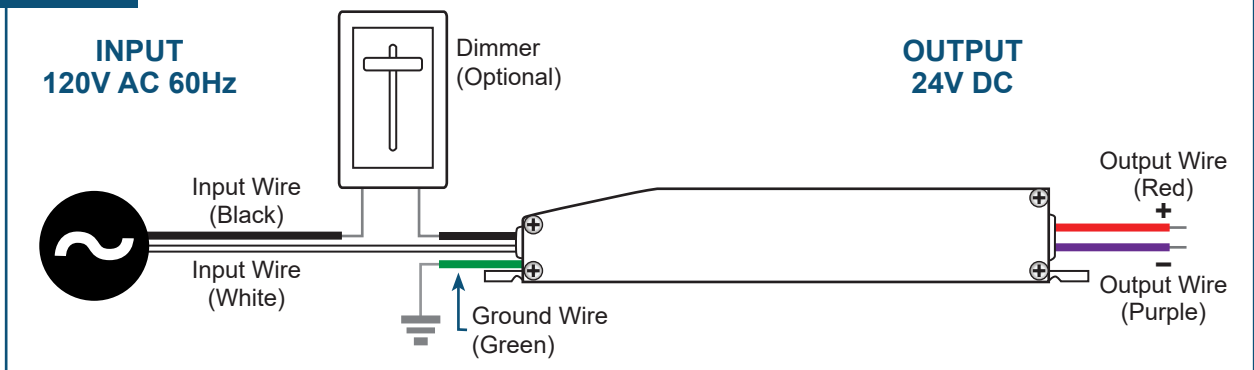
**WIRING DIAGRAMS**

**12VDC OUTPUT**



For smooth dimming, 8W minimum load is required.

**24VDC OUTPUT**



For smooth dimming, 8W minimum load is required.