

E-SERIES LISTED

Constant Voltage Electronic Phase-Dimmable LED Driver

Specification Sheet

The **E-SERIES LISTED** is an electronic Class 2, phase-dimmable, LED driver with a low profile aluminum case, making it the perfect choice for tape lighting, kick/cove lighting, under cabinet lighting and multiple other residential and commercial lighting applications. The UL Listed enclosure includes a wiring compartment with two ¼" knockouts for easy installation, eliminating the need for a separate junction box. The driver features auto reset, over current and short circuit protection as well as an efficiency over 90% -- resulting in low operating case temperature. The **E-SERIES LISTED** is phase-dimmable down to 1% with leading edge TRIAC dimmers.



120VAC

CLASS 2

12 / 24VDC



- Installation:** Surface-mount junction box with multiple ¼" knockouts
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 available
Environmental: NEMA 3R
Listing: UL Listed
Certifications: UL 8750, CSA C22.2 No. 250 13-14
Warranty: 5 year

E-SERIES is also available in:

- E-SERIES RECOGNIZED
- EZJ-Box
- JB-SERIES

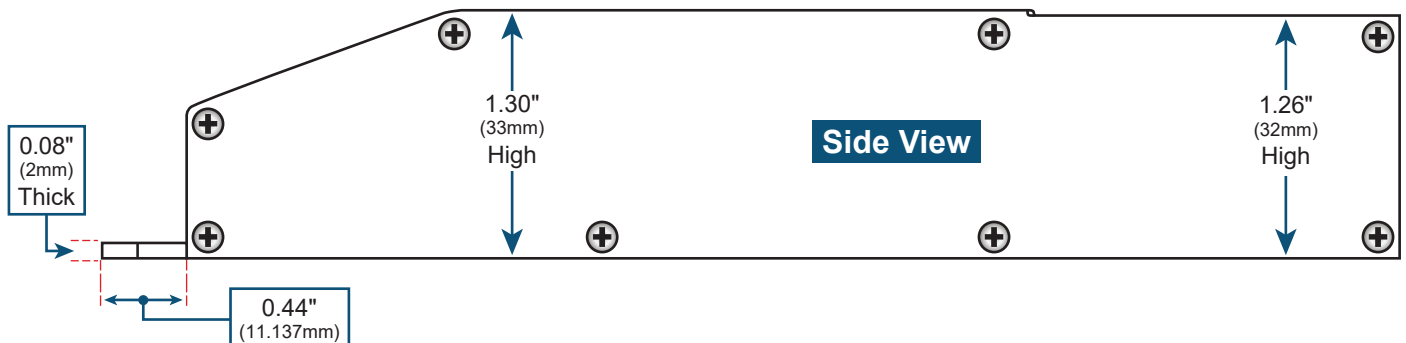
Please refer to magnitudeinc.com for more information.

ORDERING GUIDE

Type	Max Power	Listing	Output
E-SERIES LISTED	20 – 20W	L – UL Listed Enclosure	12DC – 12VDC
	40 – 40W		24DC – 24VDC
	60 – 60W		
	75 ¹ – 75W		
	96 ¹ – 96W		
	¹ 24VDC Only		

DIMENSIONS

Length	6.77" (171.9mm)
Width	2.67" (67.8mm)
Height	1.30" (33.0mm)



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Phase-Dimmable LED Driver

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Customer Service

Phone: (714) 312-5080

Fax: (714) 312-5070

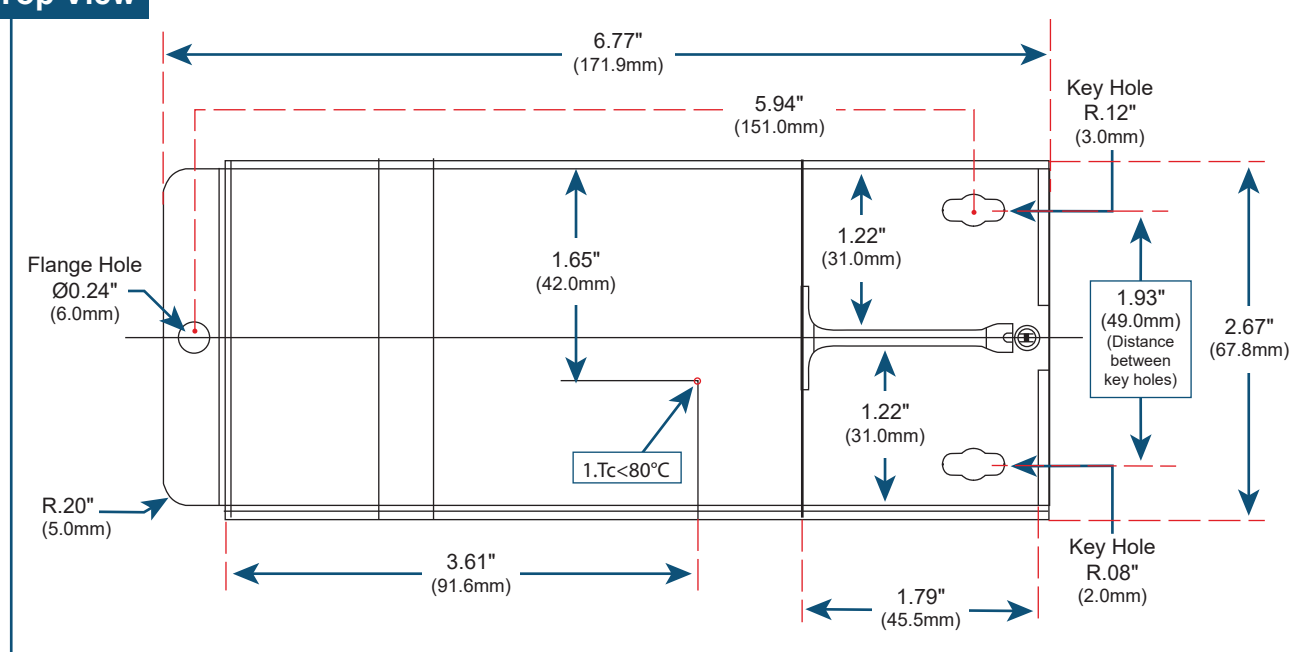
E-mail: CustomerCare@magnitudeinc.com

SPECIFICATIONS

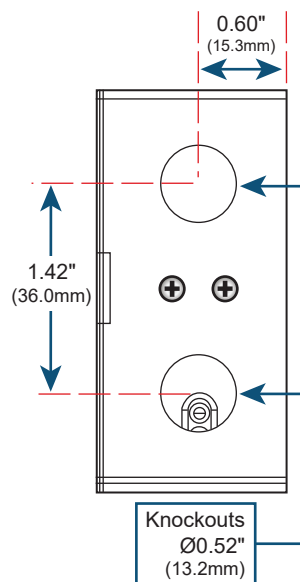
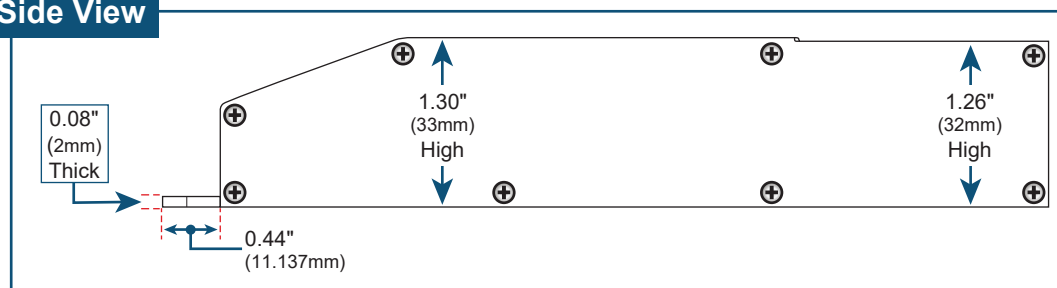
Input	20W	40W	60W	75W	96W
Input Voltage Range	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%
Input Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Input Current (12VDC)	0.20A@120VAC	0.41A@120VAC	0.61A@120VAC	----	----
Input Current (24VDC)	0.20A@120VAC	0.41A@120VAC	0.61A@120VAC	0.72A@120VAC	0.85A@120VAC
Efficiency	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	---- > 90%	---- > 90%
Power Factor	0.95	0.95	0.95	0.95	0.95
Output					
Maximum Load	20W	40W	60W	75W	96W
Minimum Load	8W	8W	8W	8W	8W
Output Voltage @ Max Load	12.0 VDC 24.0 VDC	12.0 VDC 24.0 VDC	12.0 VDC 24.0 VDC	---- 24.0 VDC	---- 24.0 VDC
Output Current @ Max Load (12VDC)	1.7A	3.50A	5.00A	----	----
Output Current @ Max Load (24VDC)	0.90A	1.75A	2.63A	3.3A	4.16A
Environmental					
Max. Ambient Temperature	-30°C to +65°C -22°F to 122°F	-30°C to +65°C -22°F to 122°F	-30°C to +65°C -22°F to 122°F	-30°C to +65°C -22°F to 122°F	-30°C to +65°C -22°F to 122°F
Dimming					
Minimum Dimming Level	1%	1%	1%	1%	1%
Protection					
Circuit Breaker	Short Circuit & Over-Voltage Auto-Reset				
Mechanical Housing					
Primary Leads	18 AWG	18 AWG	18 AWG	18 AWG	18 AWG
Secondary Leads	14 AWG	14 AWG	14 AWG	14 AWG	14 AWG
Length	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)
Width	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)
Height	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)
Weight	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)
Housing Material	Coated Metal	Coated Metal	Coated Metal	Coated Metal	Coated Metal
Housing Color	Black	Black	Black	Black	Black
Junction Box	Yes	Yes	Yes	Yes	Yes
Mounting	One-hole flange mount; 2 key holes in wire housing				
Approval Markings					
Certificates/Approval Signs	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2

MECHANICAL DIAGRAMS

Top View

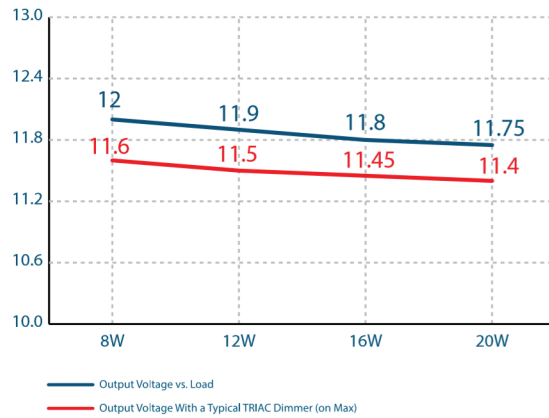


Side View

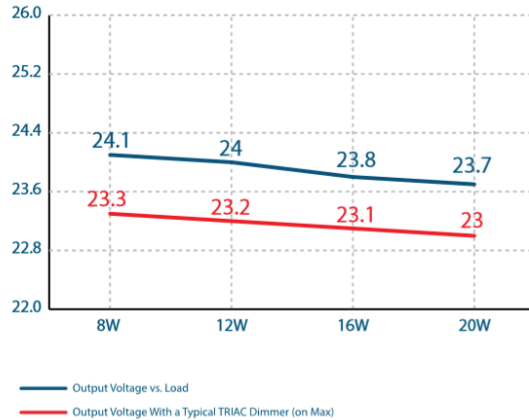


LOAD REGULATION (20 to 60W)

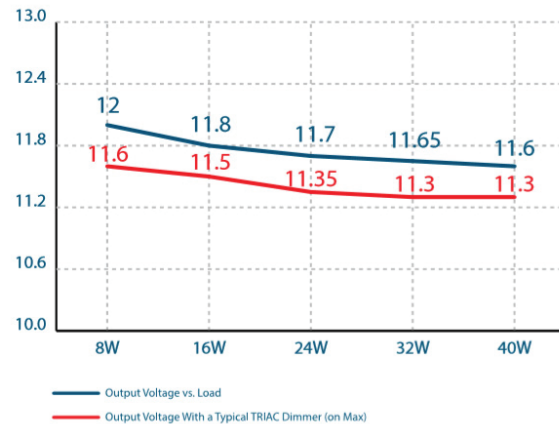
20W (12VDC)



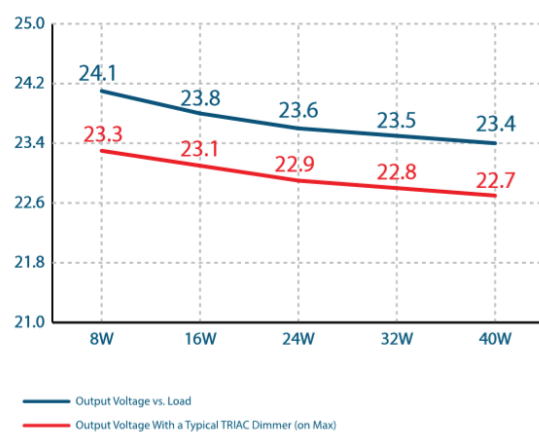
20W (24VDC)



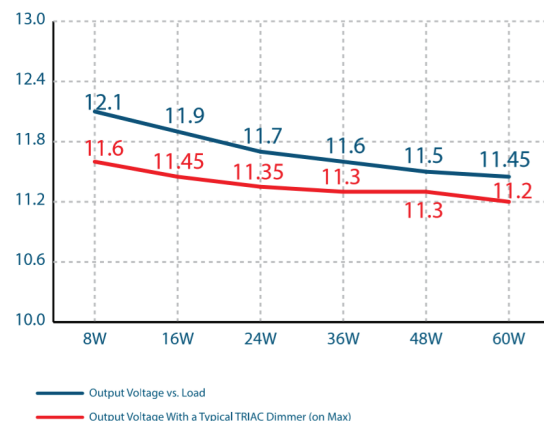
40W (12VDC)



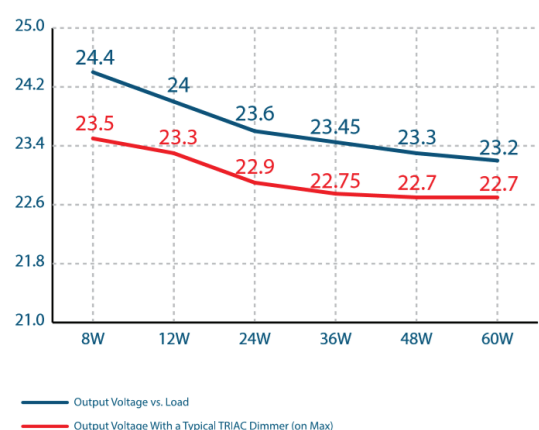
40W (24VDC)



60W (12VDC)

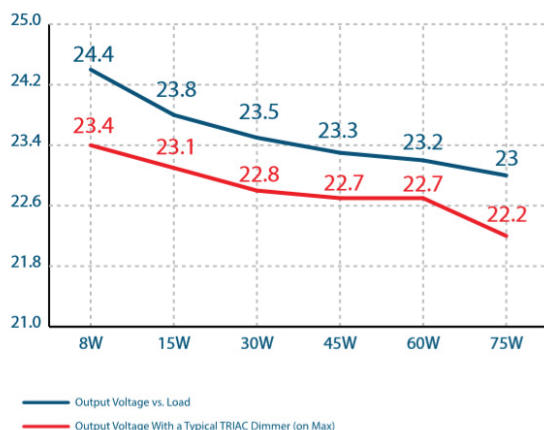


60W (24VDC)

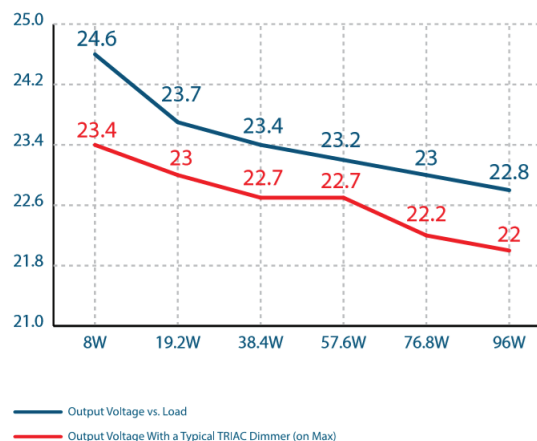


LOAD REGULATION (75 & 96W)

75W (24VDC)

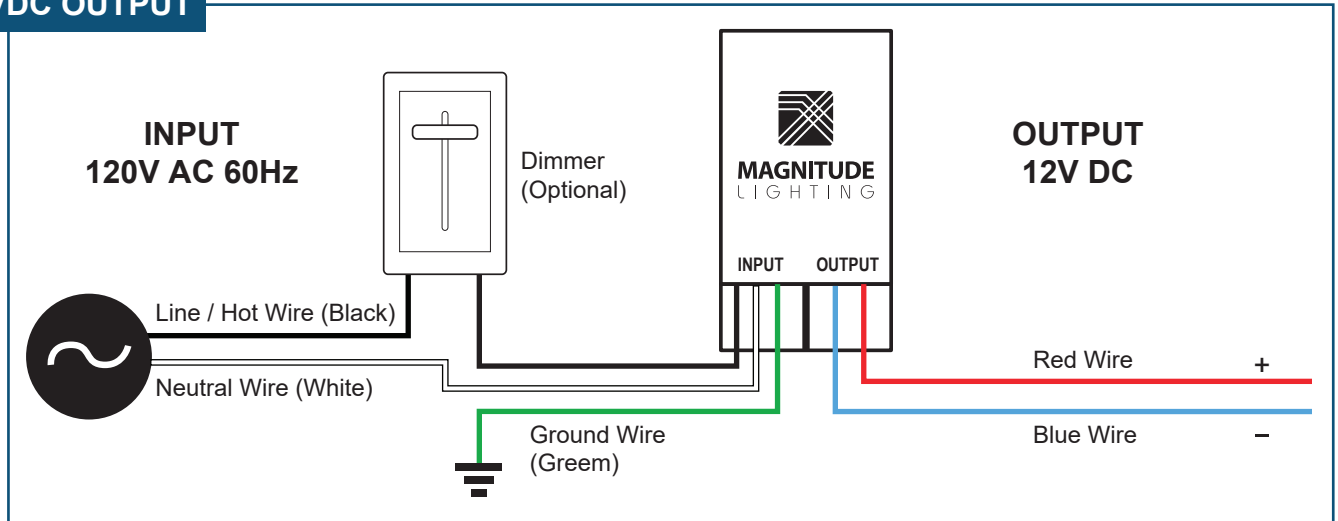


96W (24VDC)



WIRING DIAGRAMS

12VDC OUTPUT



24VDC OUTPUT

