

Constant Voltage Electronic Phase Dimmable LED Driver

P/N: E

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 fixture applications. 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 product line is phase dimmable down to 1% with leading edge TRIAC dimmers.

Installation: Wire Leads

Driver Type: 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

IP Rating: IP67

Listing: UL Recognized

Certifications: UL8750 | CSA C22.2 No. 250 13-14

Component Signage Listing Certification: UL 879 | CSA 22.2 No. 207-M89

Warranty: 5-Year Warranty



4.92" L x 2.20" W x 0.79"H



Ordering Guide Example: E20R12DC

E	R	DC
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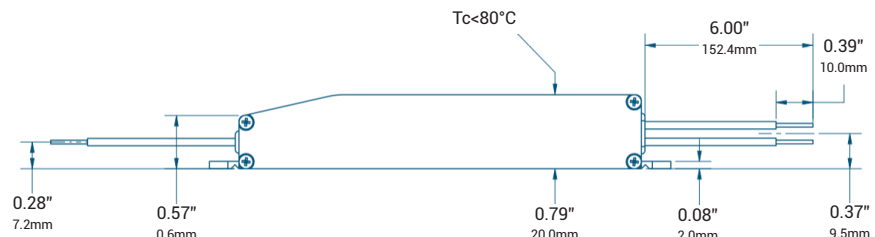
TYPE	MAX POWER	LISTING	OUTPUT
E - E-SERIES	20 - 20W	R - UL Recognized Enclosure	12DC - 12VDC
	40 - 40W		24DC - 24VDC
	60 - 60W		
	75 ¹ - 75W		
	96 ¹ - 96W		
	¹ 24VDC only		

E-SERIES is also available in:

- E-SERIES UL LISTED
- EZJ-BOX
- JB-SERIES

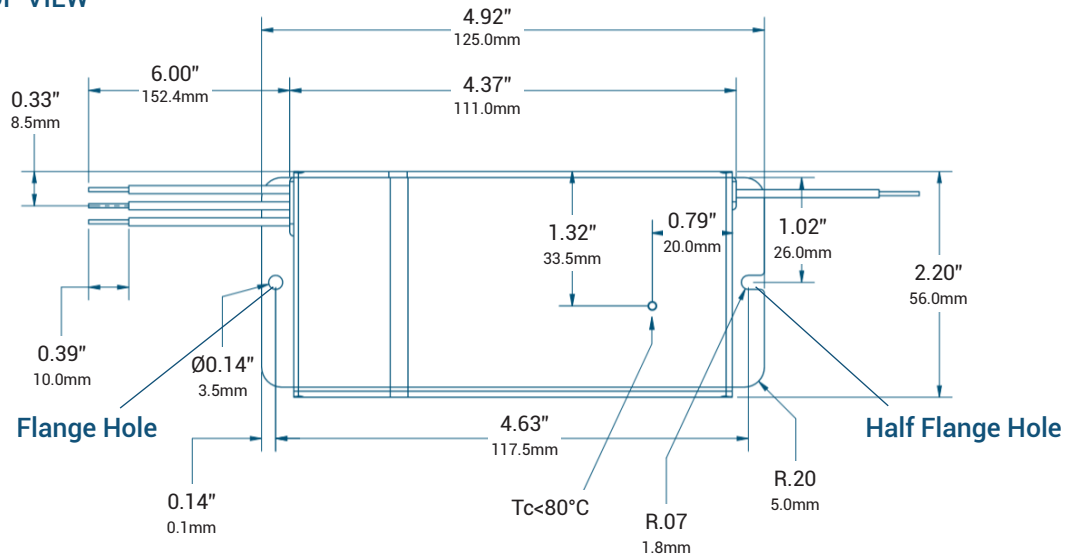
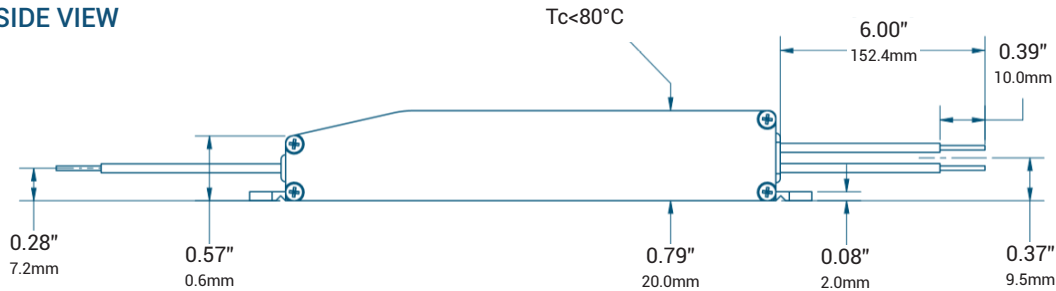
Refer to Magnitudeinc.com for more details.

DIMENSIONS	
LENGTH	4.92" (125.0mm)
WIDTH	2.20" (56.0mm)
HEIGHT	0.79" (20.0mm)



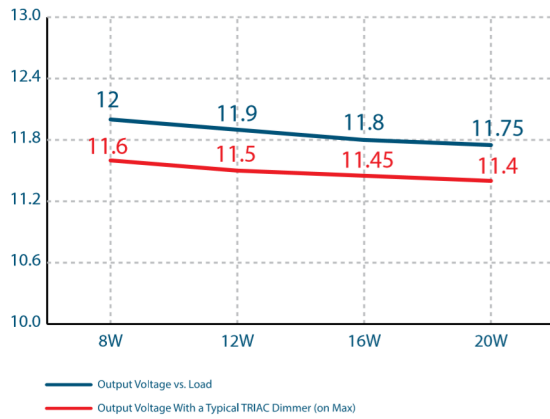
Specifications

INPUT					
Input Voltage Range	120VAC ± 10%				
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current	0.20A@120VAC (12VDC) 0.20A@120VAC (24VDC)	0.41A@120VAC (12VDC) 0.41A@120VAC (24VDC)	0.61A@120VAC (12VDC) 0.61A@120VAC (24VDC)	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					
Max Load	20W	40W	60W	75W	96W
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	1.7A (12VDC) 0.90A (24VDC)	3.50A (12VDC) 1.75A (24VDC)	5.00A (12VDC) 2.63A (24VDC)	3.3A	4.16A
ENVIRONMENTAL					
Max Ambient Temperature	-30°C - +40°C (-22°F - 104°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	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)	4.92" (125.0mm)
Width	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)	2.20" (56.0mm)
Height	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)	0.79" (20.0mm)
Weight	9oz (255g)	9oz (255g)	9oz (255g)	9oz (255g)	9oz (255g)
Housing Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Housing Color	Blue	Blue	Blue	Blue	Blue
Junction Box	No	No	No	No	No
Mounting	One hole flange mount and one 1/2 hole flange mount				
APPROVAL MARKINGS					
Certificates / Approval Signs	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2

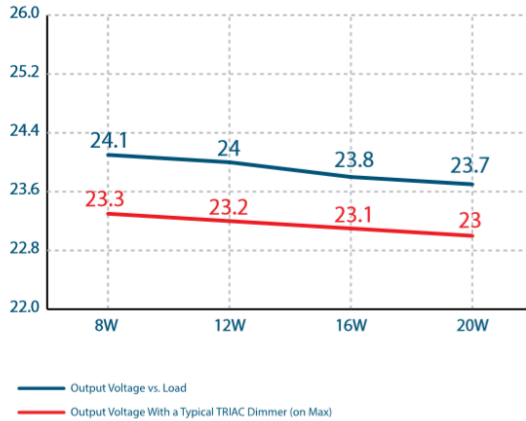
Mechanical Diagram
E-SERIES RECOGNIZED
TOP VIEW

SIDE VIEW


Load Regulation

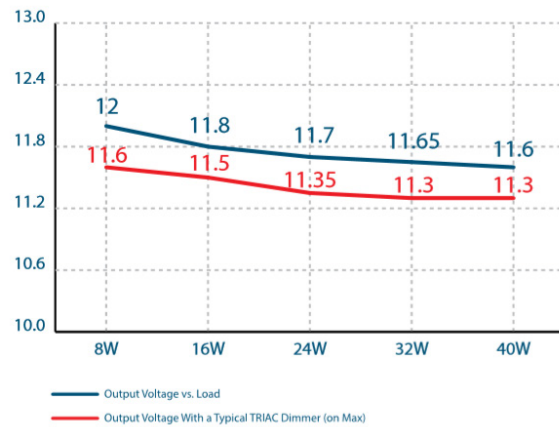
20W (12VDC)



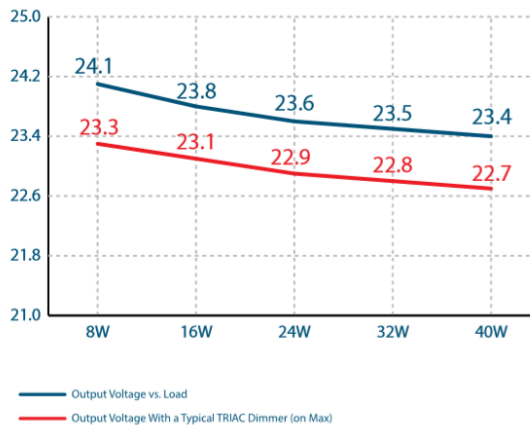
20W (24VDC)



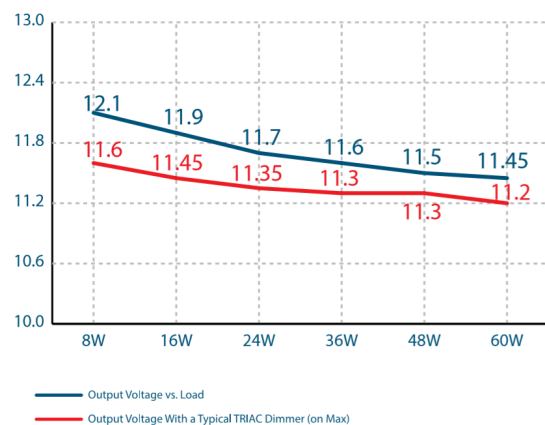
40W (12VDC)



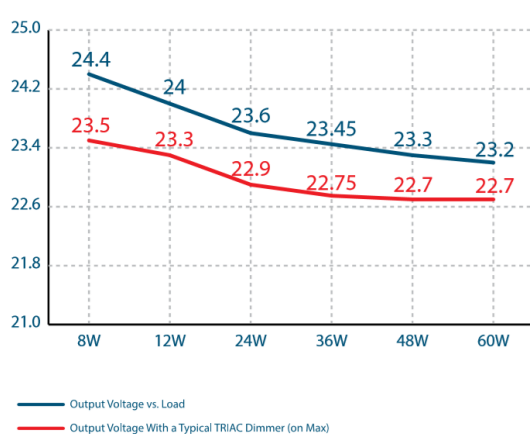
40W (24VDC)

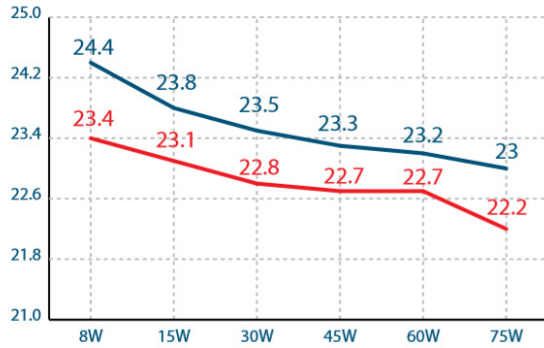


60W (12VDC)

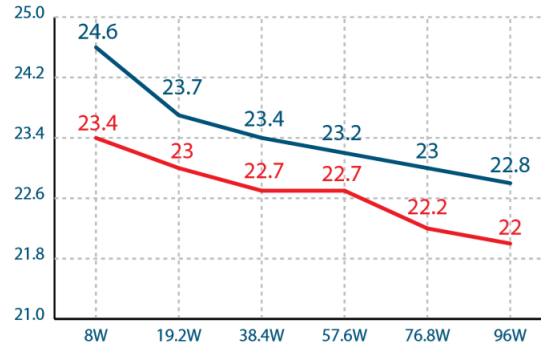


60W (24VDC)



Load Regulation
75W (24VDC)


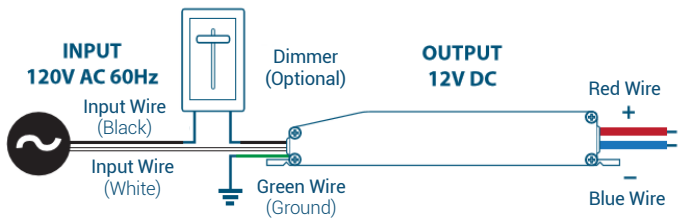
— Output Voltage vs. Load
— Output Voltage With a Typical TRIAC Dimmer (on Max)

96W (24VDC)


— Output Voltage vs. Load
— Output Voltage With a Typical TRIAC Dimmer (on Max)

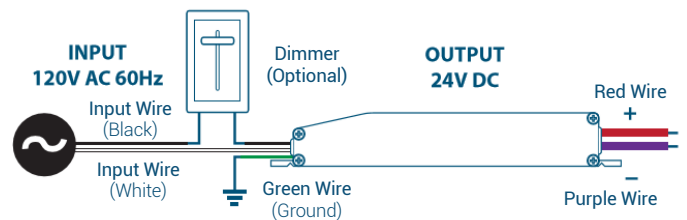
Wiring Diagram

12VDC OUTPUT



For smooth dimming 8W minimum load is required

24VDC OUTPUT



For smooth dimming 8W minimum load is required