

E-SERIES RECOGNIZED

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 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.



4.92" L x 2.20"W x 0.79"H



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 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 our website at Magnitudeinc.com for more information.

ORDERING GUIDE

Example: E20R12DC

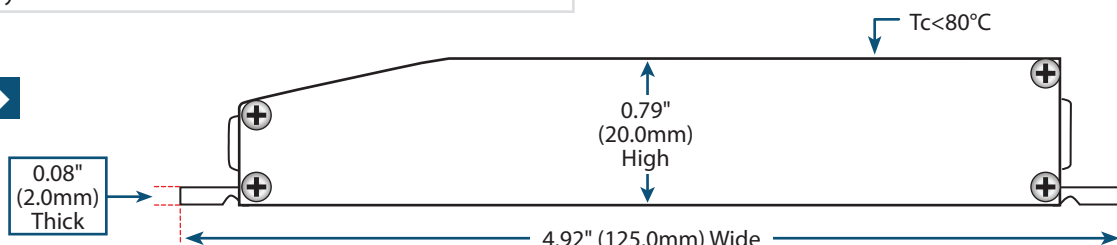
E__R__DC

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

DIMENSIONS

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

ACTUAL SIZE OF DRIVER →



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SPECIFICATIONS

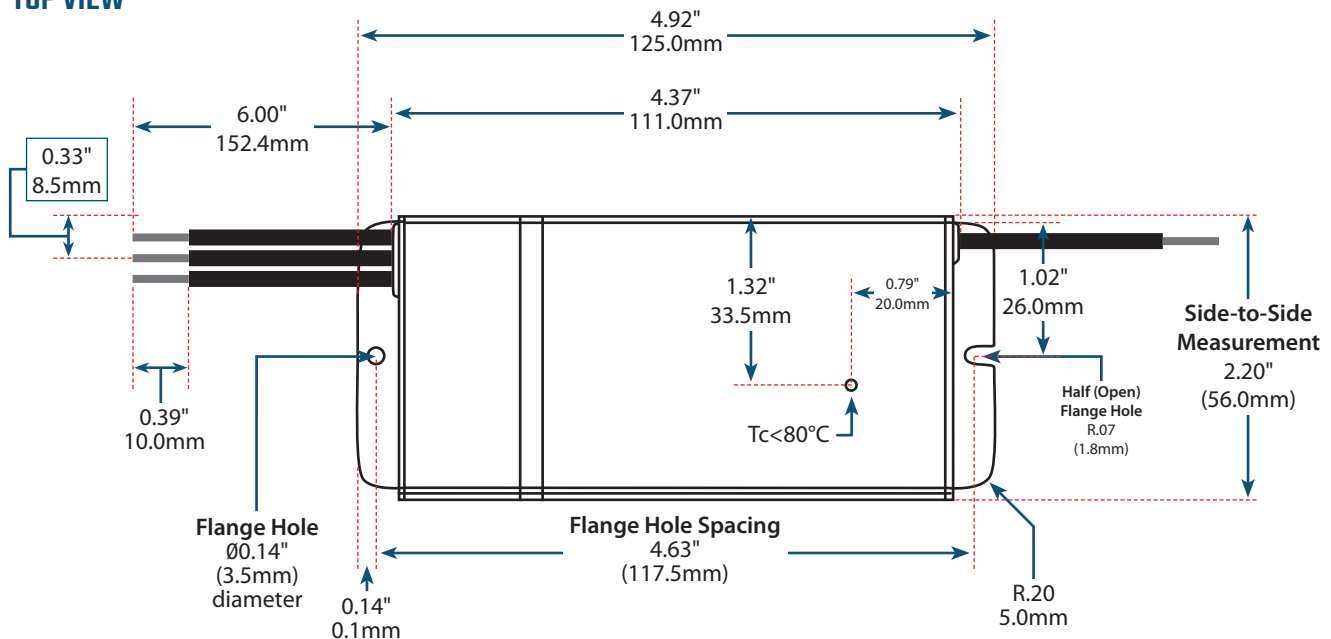
INPUT	20W	40W	60W	75W	96W
Input Voltage Range	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%	120VAC ± 10%
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current	0.20A@120VAC (12VDC) 0.20A@120VAC (24VDC)	0.41A@120VAC (12VDC) 0.41A@120VAC (24VDC)	0.61A@120VAC (12VDC) 0.61A@120VAC (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 (12 VDC) 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					
Mimumum Dimming Level	1%	1%	1%	1%	1%
PROTECTION					
Circuit Breaker	Short circuit & over-voltage auto-reset				
MECHANICAL HOUSING					
Primary Leads	18AWG	18AWG	18AWG	18AWG	18AWG
Secondary Leads	14AWG	14AWG	14AWG	14AWG	14AWG
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	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)
Housing Material	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Housing Ciolor	Blue	Blue	Blue	Blue	Blue
Junction Box	No	No	No	No	No
Mounting	One hole flange mount and one half-hole flange mount.				
APPROVAL MARKINGS					
Certificates/Approval Signs	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2

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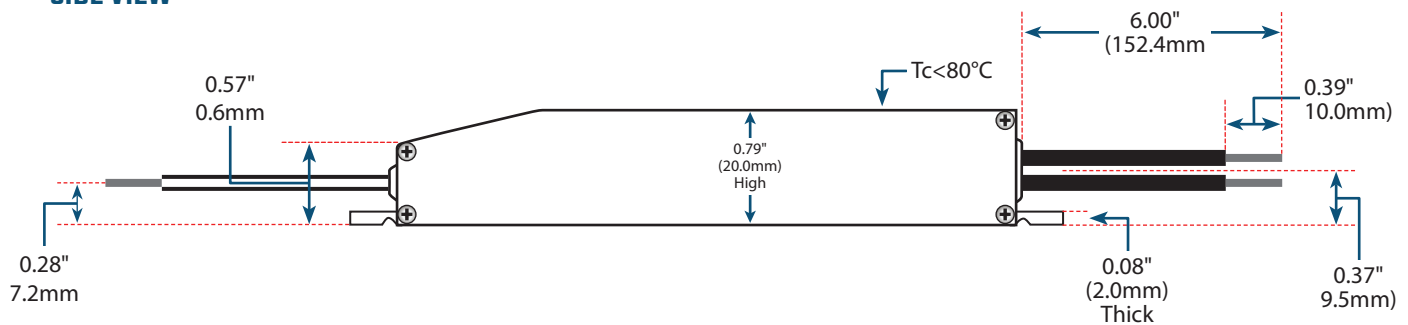
Constant Voltage Electronic Phase-Dimmable LED Driver

↓ MECHANICAL DIAGRAMS ↓

TOP VIEW



SIDE VIEW

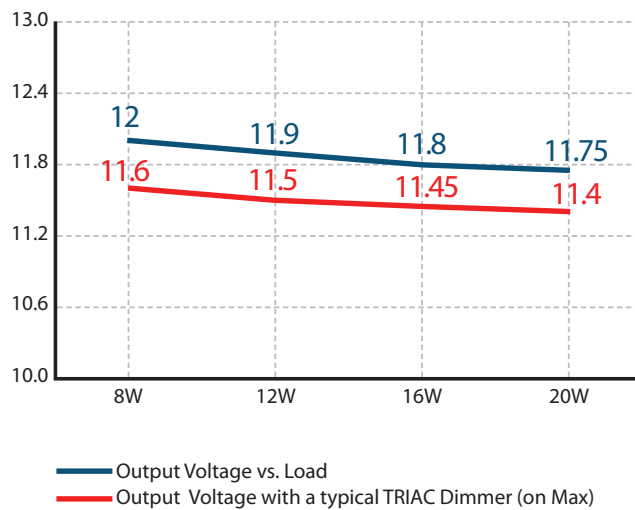


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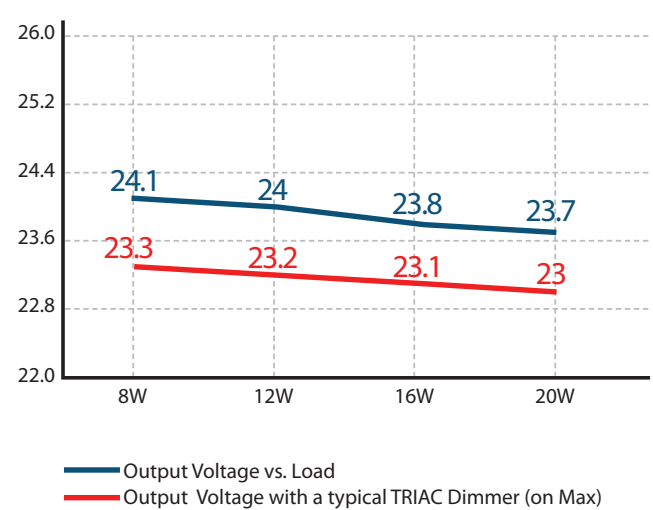
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LOAD REGULATION 20W & 40W

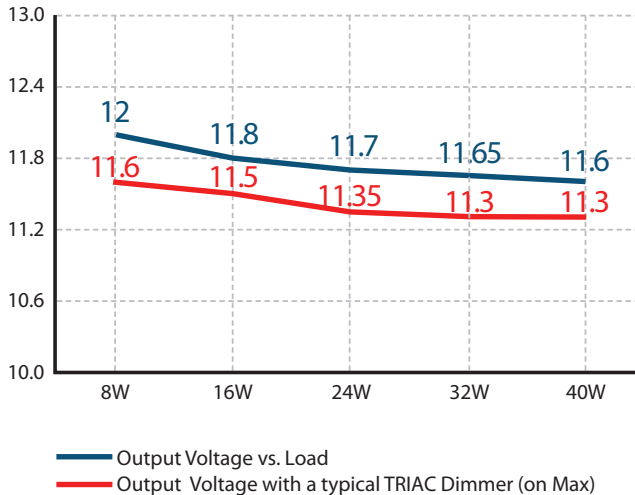
20W (12VDC)



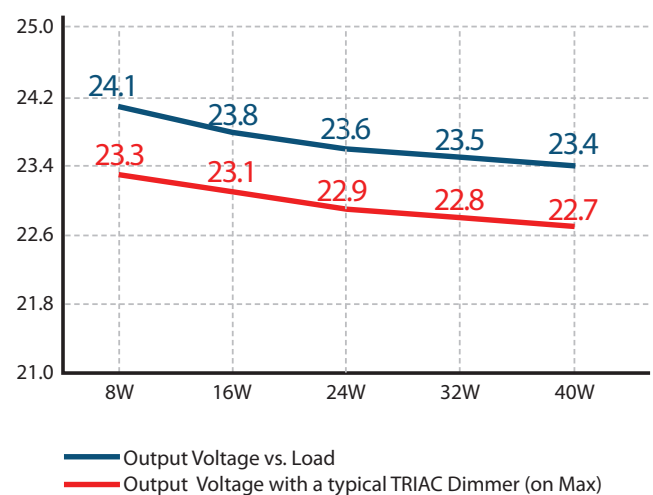
20W (12VDC)



40W (12VDC)



40W (24VDC)

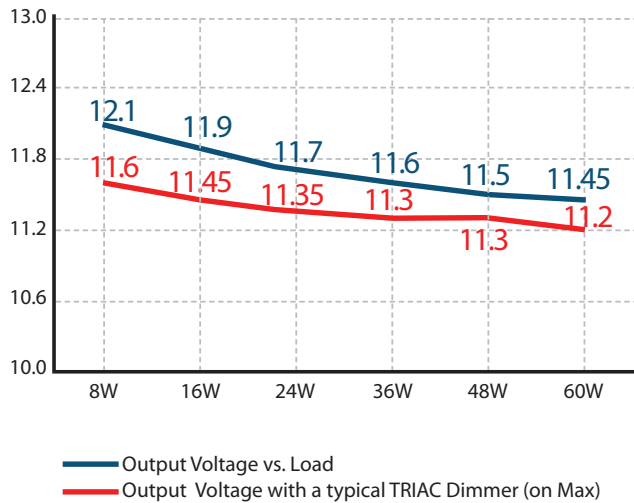


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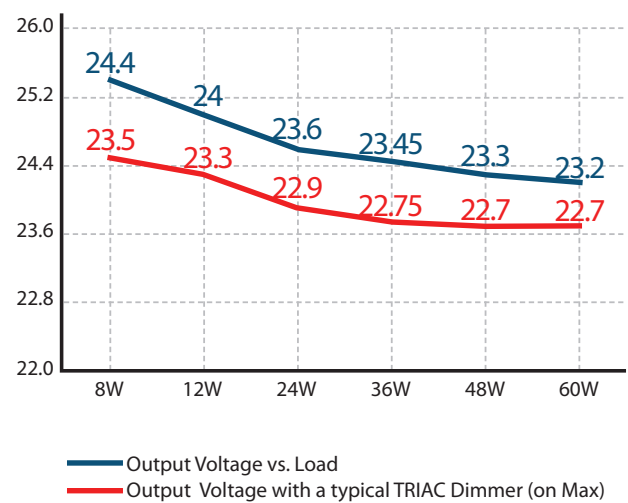
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LOAD REGULATION 60W, 75W & 96W

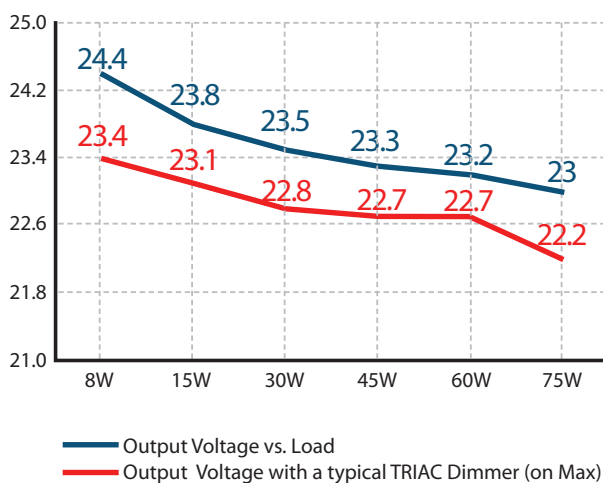
60W (12VDC)



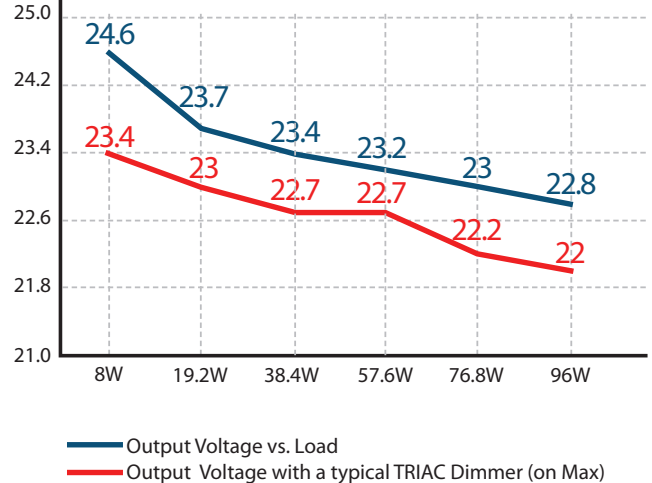
60W (24VDC)



75W (24VDC)



96W (24VDC)

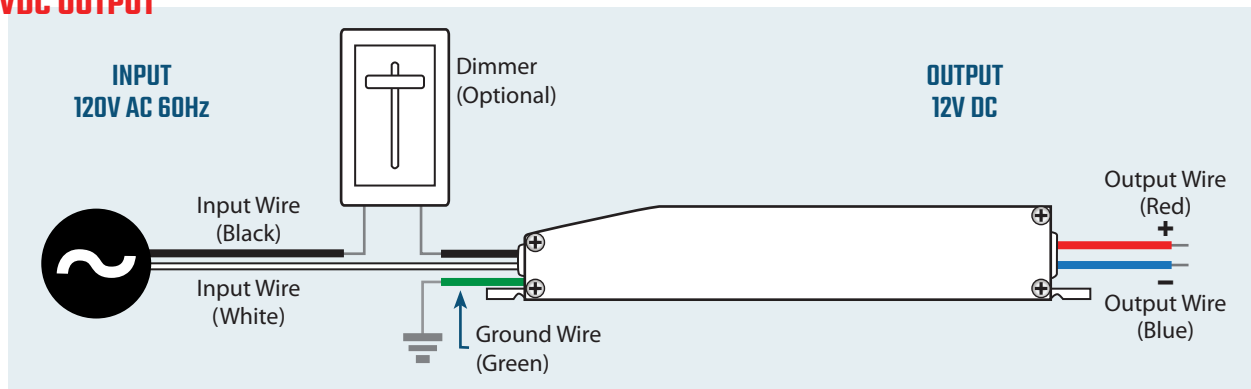


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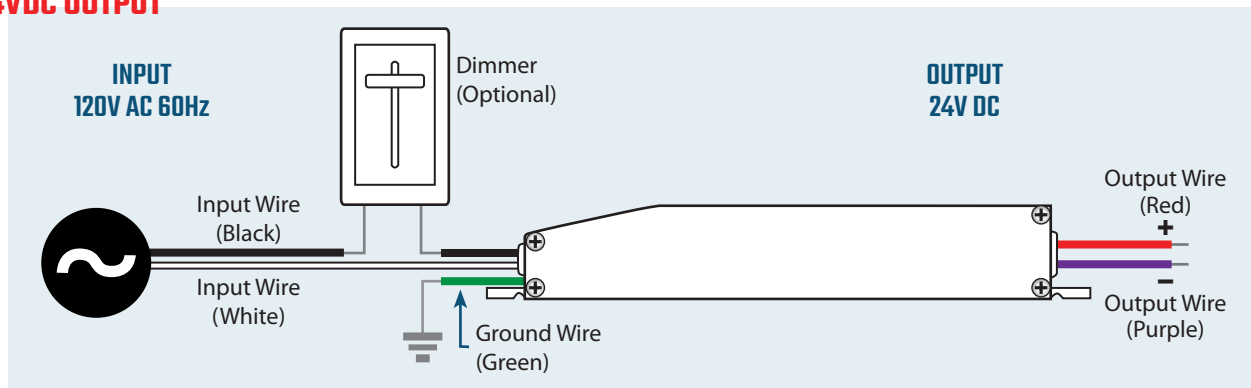
↓ WIRING DIAGRAMS ↓

12VDC OUTPUT



For smooth dimming, 8W minimum load is required.

24VDC OUTPUT



For smooth dimming, 8W minimum load is required.