

EnoDim Series

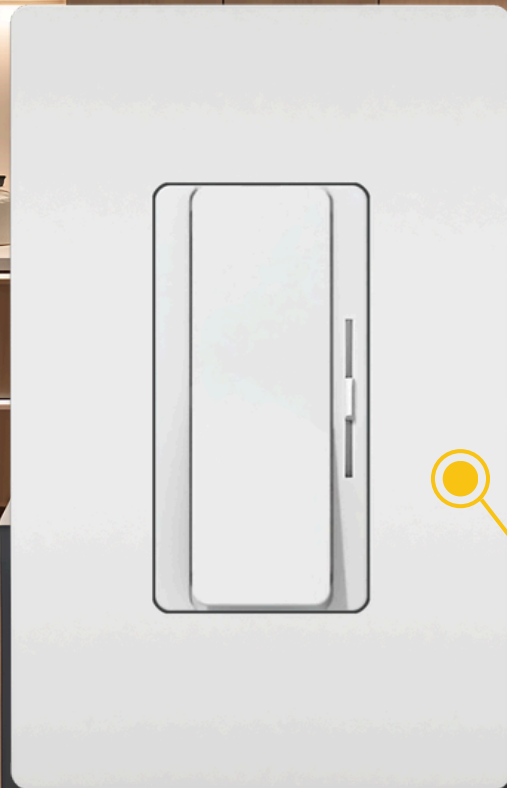
Driver & Dimmer Switch in One

12V
DC

24V
DC

FCC

cUL^{US}
LISTED



The Driver
is Inside

EnoDim series

Driver & Dimmer Switch in One



Features

- Integrated Driver & Dimmer Wall Switch
- Soft dimming down to 0.1%
- Single-Pole & 3-Way
- Compatible with COB LED tape
- No minimum load required
- Fits Standard Wall Plates
- Retail-Ready Packaging
- Prevents Drop with Adjustable Output
- Compliant with Title 24 Part 6 Flicker Requirements



*Wallplate not included

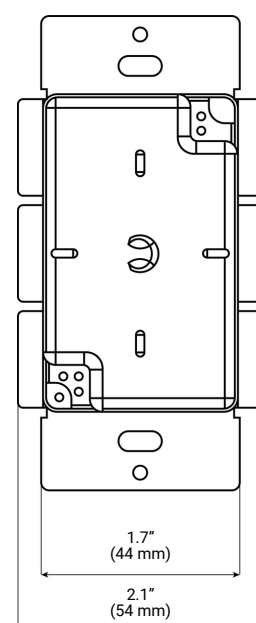
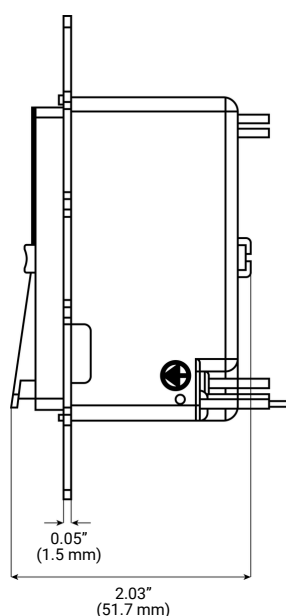
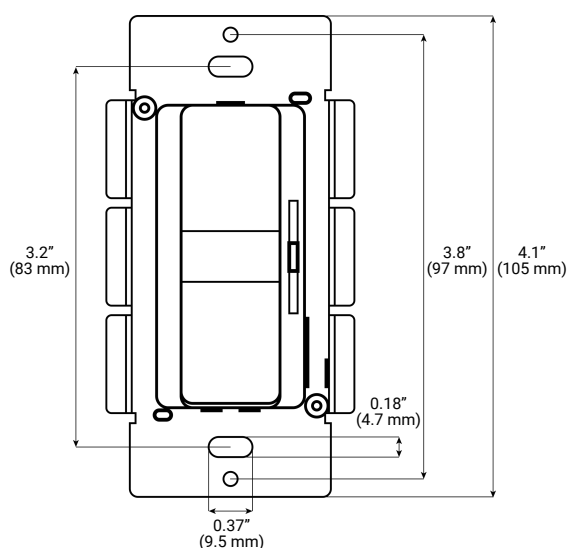
Dimming

Min. Dimming Level:	0.1%
Dim to off:	Yes
Dimming Curve:	Linear
Dimming type:	PWM (20KHz)

Applications

- LED strip
- LED tape
- Cove lights
- Linear lights
- Puck lights

Mechanical Overview



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Specifications

Input	Ordering Code:	EnoDim-96-24-D-W	EnoDim-160-24-D-W
Input Voltage Range:		120VAC	120VAC
Input Frequency:		60Hz	60Hz
Power Factor:		≥0.99	≥0.99
Input Current:		0.9A max	0.9A max
Inrush Current:		50A, 150us@50%I _{peak}	50A, 150us@50%I _{peak}
Efficiency:		91%	94.5%
THD:		≤10%	≤10%
Leakage Current:		<0.5mA	<0.5mA

Output

Output Voltage:	24VDC (24V-26V adjust by knob)	24VDC (24V-26V adjust by knob)
Voltage Tolerance:	±0.5V	±0.5V
Load Regulation:	≤1%	≤1%
Line Regulation:	≤0.5%	≤0.5%
Rated current:	4A	6.67A
Rated power:	96W	160W

Environmental

Operating Ambient Temp.:	40°F - 104°F (-40°C - 40°C)
Working Humidity:	20 - 95%RH non-condensing
Storage Temp.:	-40 - +80°C, 10 - 95% RH non-condensing
Temp. Coefficient:	±0.03%/°C(0 - 50°C)
Vibration	10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes

Protection

Over Temperature Protection:	Shell surface temperature 100°C±10°C shut down o/p voltage, automatically recover after cooling
Overload Protection:	≥110% Hiccup mode, recovers automatically after fault condition is removed
Short Circuit Protection:	Hiccup mode, recovers automatically after fault condition is removed

Enclosure

Net Weight:	0.55lbs (0.25kg)	0.59lbs (0.27kg)
Dimensions:	4.134" x 2.126" x 1.996"	4.134" x 2.126" x 2.047"

Safety & EMC

Safety standards:	UL8750 CAN/CSA-C22.2 No.250.13 (US)
Withstand voltage:	I/P-O/P:1.8KVAC I/P-F/G:1.8KVAC O/P-F/G:0.5KVAC (US)
Isolation resistance:	I/P-O/P:100MΩ / 500VDC / 25°C / 70% RH
EMC Immunity:	FCC/ICES do not request this test (US)
EMC Emission:	FCC Part15 Subpart B ANSI C63.4:2014 (US)

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Specifications

Input	Ordering Code:	EnoDim-60-12-D-W	EnoDim-120-12-D-W
Input Voltage Range:		120VAC	120VAC
Input Frequency:		60Hz	60Hz
Power Factor:		≥0.99	≥0.99
Input Current:		0.6A max	1.1A max
Inrush Current:		50A, 150us@50%I _{peak}	54A, 290us@50%I _{peak}
Efficiency:		91%	92%
THD:		≤10%	≤10%
Leakage Current:		<0.5mA	<0.5mA

Output

Output Voltage:	12V (12V-13.5V adjust by knob)	12V (12V-13.5V adjust by knob)
Voltage Tolerance:	±0.5V	±0.5V
Load Regulation:	≤2%	≤2%
Line Regulation:	≤0.5%	≤0.5%
Rated current:	5A	10A
Rated power:	60W	120W

Environmental

Operating Ambient Temp.:	-40°F - 140°F (-40°C - 60°C)
Working Humidity:	20 - 95%RH non-condensing
Storage Temp.:	-40 - +80°C, 10 - 95% RH non-condensing
Temp. Coefficient:	±0.03%/°C(0 - 50°C)
Vibration	10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes

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Over Temperature Protection:	Shell surface temperature 100°C±10°C shut down o/p voltage, automatically recover after cooling
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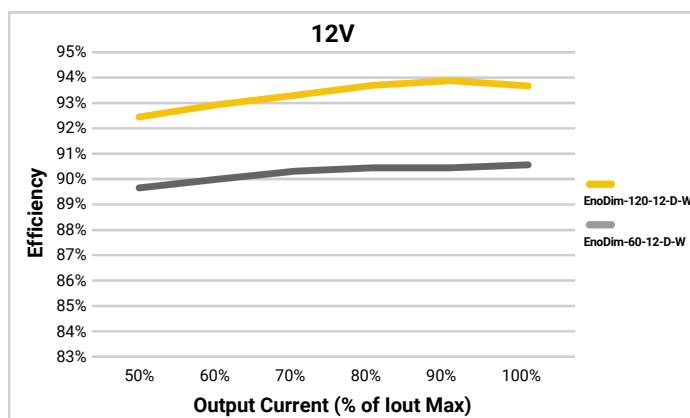
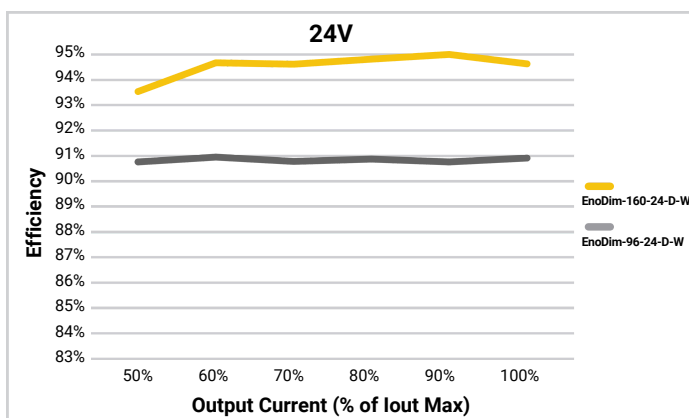
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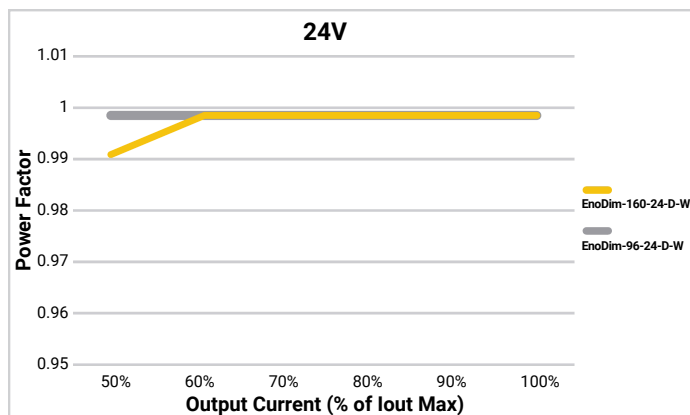
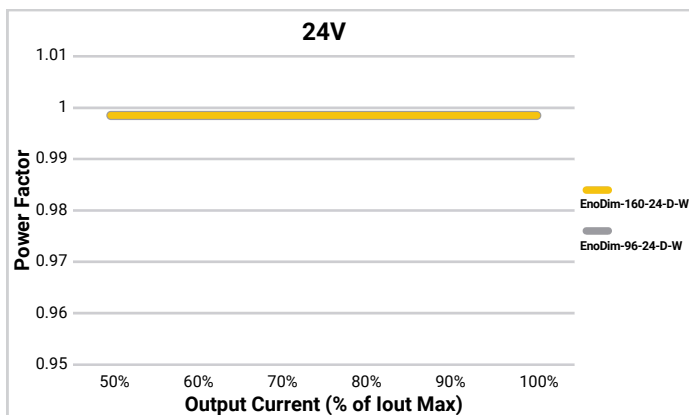
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Efficiency Curve



Power Factor Curve



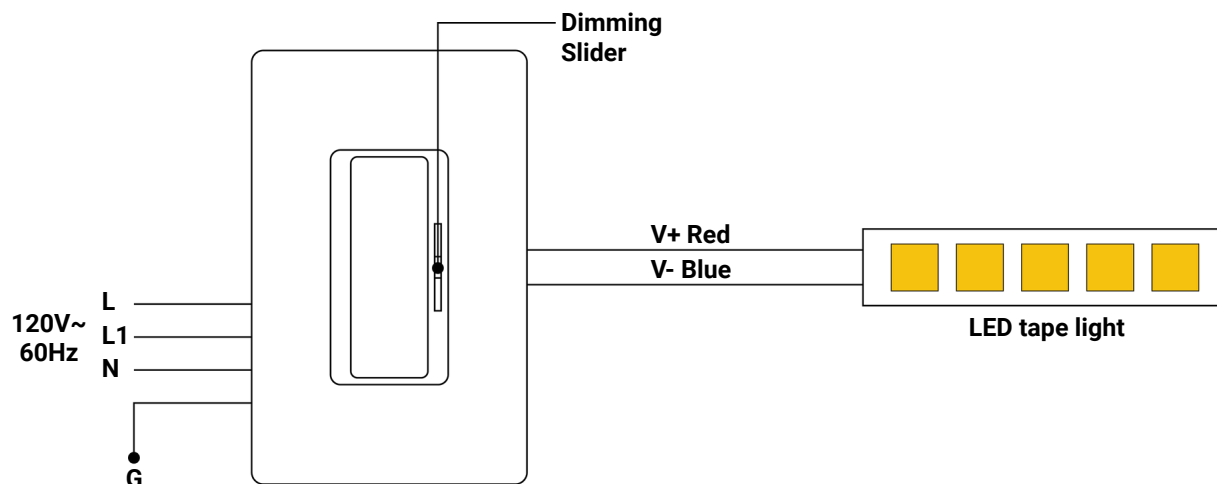
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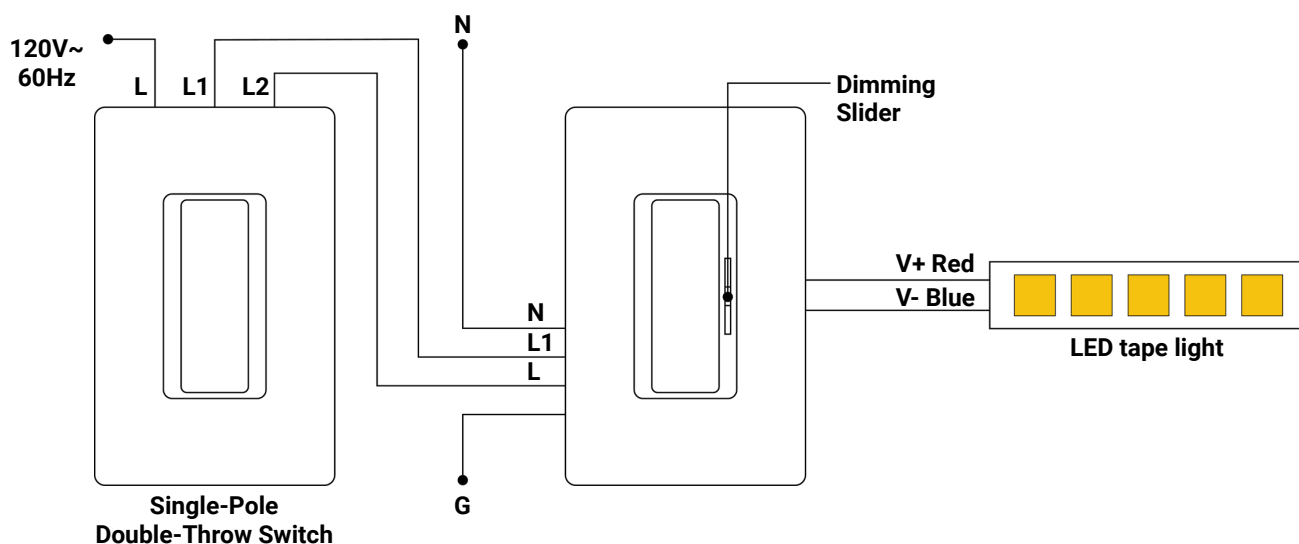


Wiring Diagram

Standard dimming system



3-Way dimming system

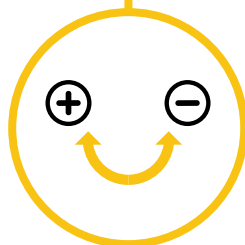
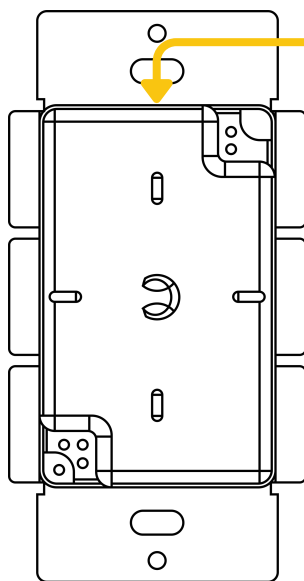


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Adjust Voltage



Output Volt. Adjustment

12V output volt.: 12.13.5V

24V output volt.: 24-26V