

AdaptDrive

AL-97-0X-XXXX Specification Sheet



The AdaptDrive is an all-in-one LED driver and dimmer that simplifies installation by fitting directly into a standard recessed electrical box—eliminating the need for a separate driver location. UL Listed and Class 2 Compliant, AdaptDrive is available in a wide range of output options in both 12VDC and 24VDC configurations to suit a variety of low-voltage lighting applications.

This is the first driver of its kind to provide this level of power in such a compact footprint—making it ideal for high-output applications where space is limited.

- Constant Voltage Output in 12VDC
- UL Listed, Class 2 Compliant
- Installs directly into standard wall boxes
- Clean white finish on trim
- First in its class for power density in a recessed enclosure

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System Builder

Prefix	Model	Voltage	Wattage	Suffix
AL-97 AdaptDrive	02 Standard	12 12V DC	060 60W	No suffix White trim
	03 VariTune	24 24V DC	096 96W	-BL Black trim
			120 120W	-MT Multi-Tap (two Class 2 channels)
			160 160W	

AdaptDrive

Output	Watts	White	Black	Class 2
12V DC	60W	AL-97-02-12060	AL-97-02-12060-BL	✓
12V DC	120W	AL-97-02-12120	-	-
24V DC	60W	AL-97-02-24060	AL-97-02-24060-BL	✓
24V DC	96W	AL-97-02-24096	AL-97-02-24096-BL	✓
24V DC	160W	AL-97-02-24160	-	-

AdaptDrive Multi-Tap

Output	Watts	White	Class 2
12V DC	120W (2*60W)	AL-97-02-12120-MT	✓
24V DC	160W (2*80W)	AL-97-02-24160-MT	✓

AdaptDrive VariTune

Output	Watts	White	Black	Class 2
24V DC	96W	AL-97-03-24096	AL-97-03-24096-BL	✓
24V DC	160W	AL-97-03-24160	-	-

AdaptDrive

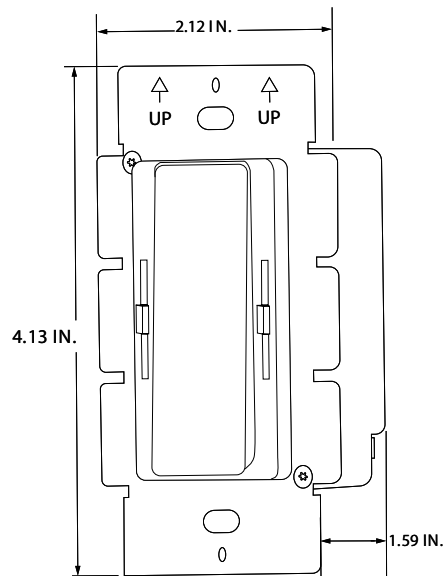
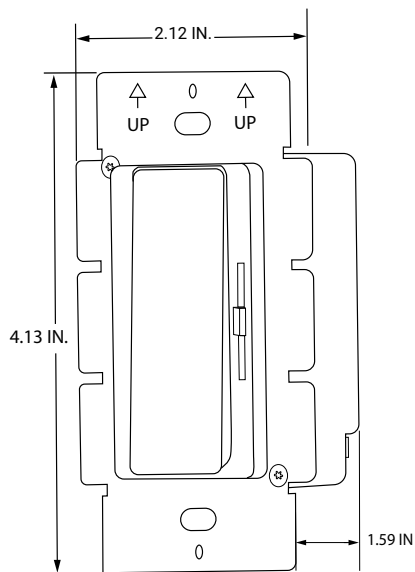
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Dimensions

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Technical Information

Item Number		AL-97-02-12060	AL-97-02-12060-BL	AL-97-02-12120	AL-97-02-24060	AL-97-02-24060-BL
Output	DC Voltage	12V DC			24V DC	
	Rated Current	5A		10A	2.5A	
	Rated Power	60W		120W	60W	
	Minimum Load	0%				
Input	Voltage Range	120V AC				
	Frequency Range	60 Hz				
	Power Factor (Avg.)	>99%				
Protection	Short Circuit	Short circuit protection and autorecovery		Hiccup mode, recovers automatically after fault condition is removed		
	Over Voltage	≤140V AC (90~135V)		≥110% Constant current mode, recovers automatically after fault condition is removed		
Environment	Working Temperature	-40~+60°C / -40~+140°F				
	Humidity	95%RH		20 - 95%RH non-condensing		
Safety & EMC	Safety Standards	UL8750 CAN/CSA-C22.2 No.250.13 (US)				
	EMC Emission	FCC Part15 Subpart B ANSI C63.4:2014 (US)				
Other	Warranty	6 Year Limited				
	Size	4.13 x 2.12 x 1.59 in.				
	Color	White	Black	White	White	Black

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Technical Information

Item Number		AL-97-02-24096	AL-97-02-24096-BL	AL-97-02-24160	AL-97-02-12120-MT	AL-97-02-24160-MT
Output	DC Voltage	24V DC			12V DC	24V DC
	Rated Current	4A		6.67A	2*5A	2*3.33A
	Rated Power	96W		160W	120W (2*60W)	160W (2*80W)
	Minimum Load	0%				
Input	Voltage Range	120V AC				
	Frequency Range	60 Hz				
	Power Factor (Avg.)	>99%				>98%
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed				Short circuit protection and autorecovery
	Over Voltage	≥110% Constant current mode, recovers automatically after fault condition is removed				≤140V AC (90~135V)
Environment	Working Temperature	-40~+60°C / -40~+140°F				
	Humidity	20 - 95%RH non-condensing				95%RH
Safety & EMC	Safety Standards	UL8750 CAN/CSA-C22.2 No.250.13 (US)				
	EMC Emission	FCC Part15 Subpart B ANSI C63.4:2014 (US)				
Other	Warranty	6 Year Limited				
	Size	4.13 x 2.12 x 1.59 in.				
	Color	White	Black	White		

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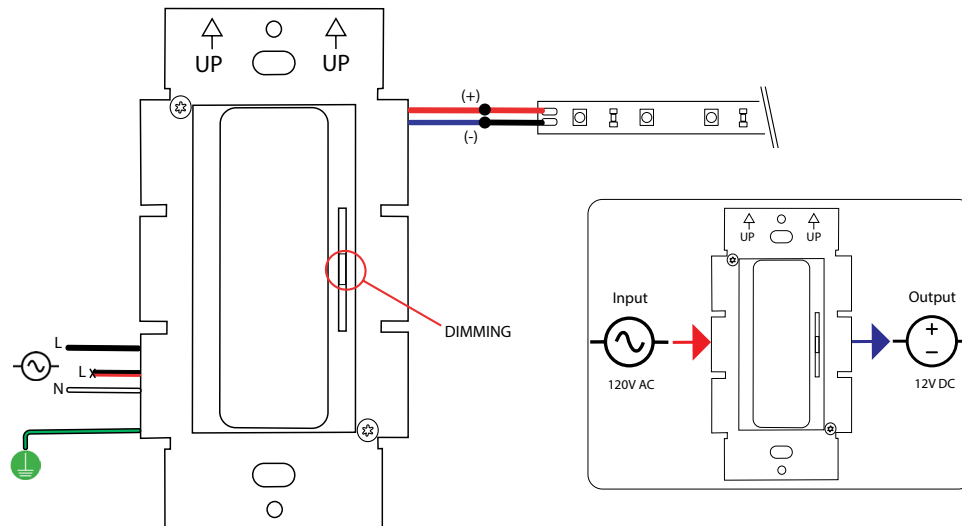
Technical Information

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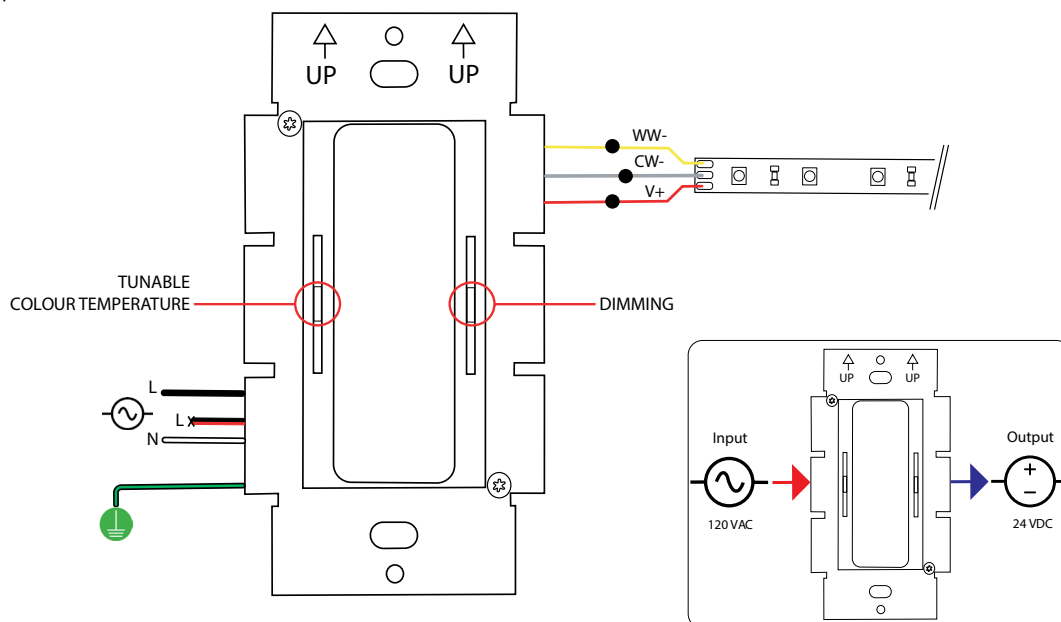
Item Number		AL-97-03-24096	AL-97-03-24096-BL	AL-97-03-24160
Output	DC Voltage	24V DC		
	Rated Current	4A		6.67A
	Rated Power	96W		160W
	Minimum Load	0%		
Input	Voltage Range	120V AC		
	Frequency Range	60 Hz		
	Power Factor (Avg.)	>99%		
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed		
	Over Voltage	≥110% Constant current mode, recovers automatically after fault condition is removed		
Environment	Working Temperature	-40~+60°C / -40~+140°F		
	Humidity	20 - 95%RH non-condensing		
Safety & EMC	Safety Standards	UL8750 CAN/CSA-C22.2 No.250.13 (US)		
	EMC Emission	FCC Part15 Subpart B ANSI C63.4:2014 (US)		
Other	Warranty	6 Year Limited		
	Size	4.13 x 2.12 x 1.59 in.		
	Color	White	Black	White

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Dimming Wiring Diagram



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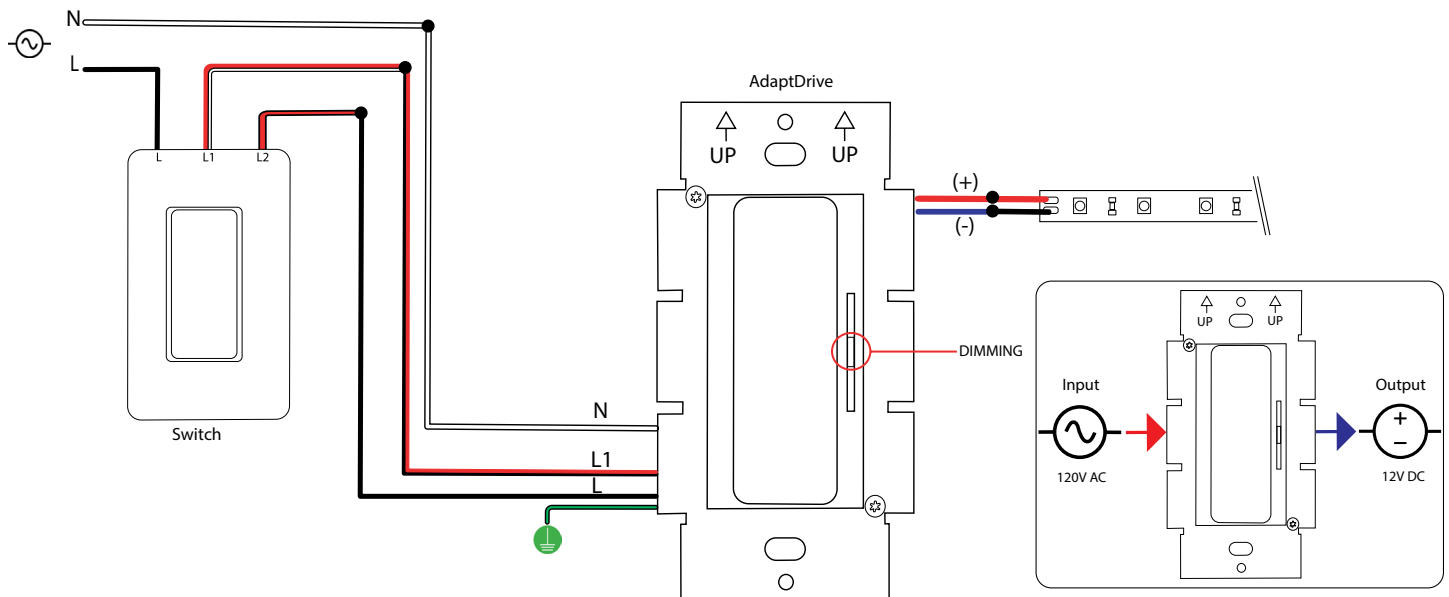


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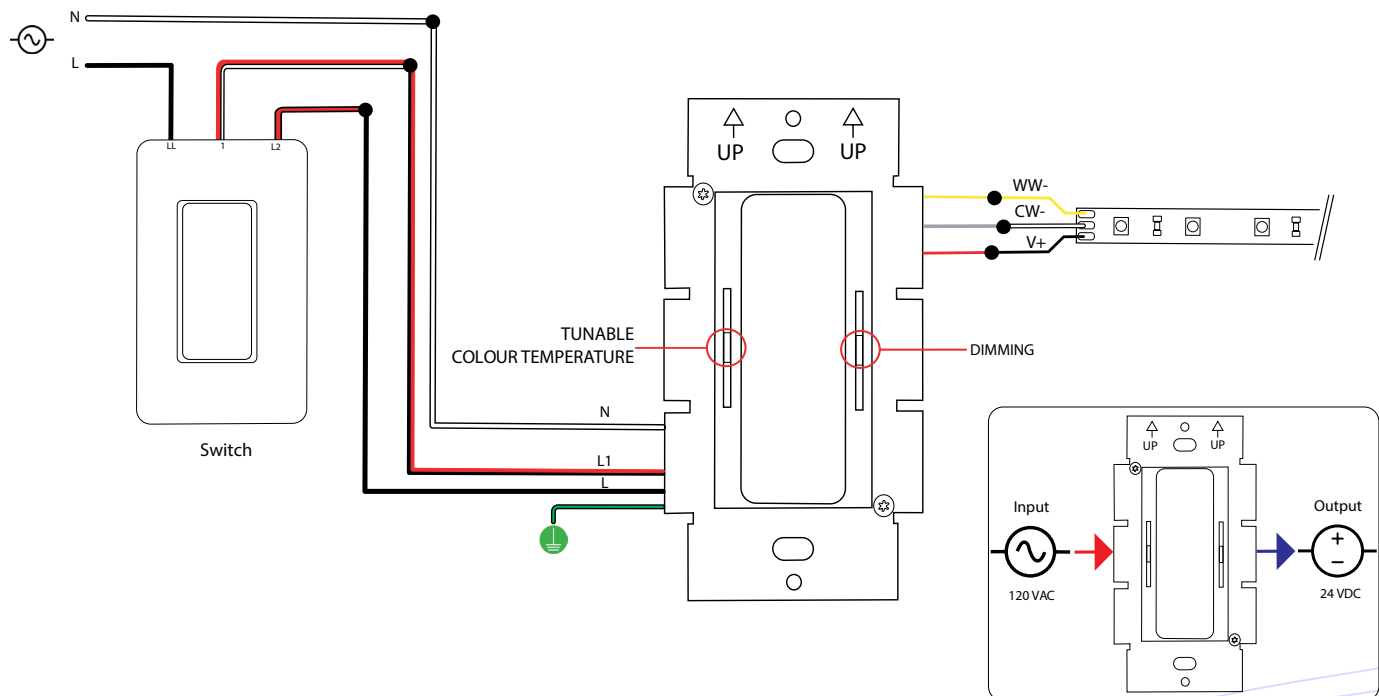
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3-Way Dimming Wiring Diagram

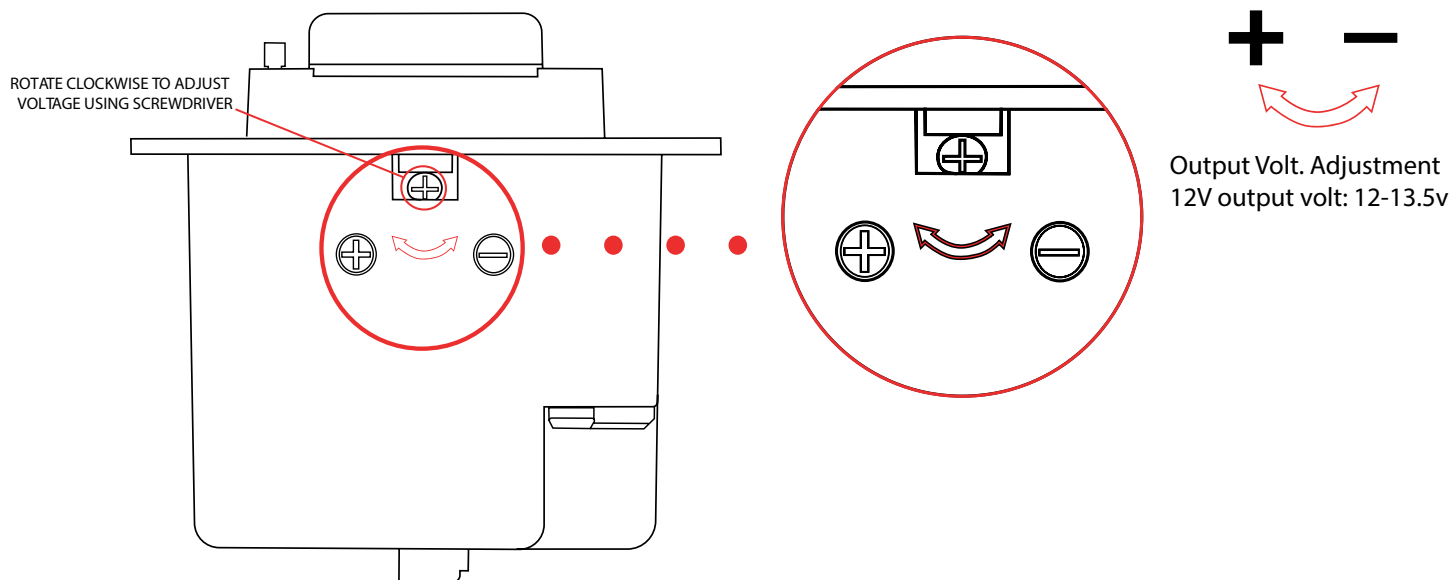


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Adjust Voltage



Troubleshooting

- Q:** Why is the fixture connected to the driver blinking roughly once a second?
- A:** The driver may be overloaded. Check to make sure the maximum wattage is not being exceeded. There could also be a possibility of incompatible voltage. Confirm that the driver and fixture voltage match.
- Q:** How do I determine the compatibility?
- A:** Check the voltage, wattage, load capacity of both the fixture and driver.
- Q:** Is it possible to have multiple fixtures that are daisy-chained together connect to a driver with 1 lead wire?
- A:** Yes, but only if the total length of consecutive runs do not exceed the fixture's maximum run and also does not exceed the driver's maximum wattage.