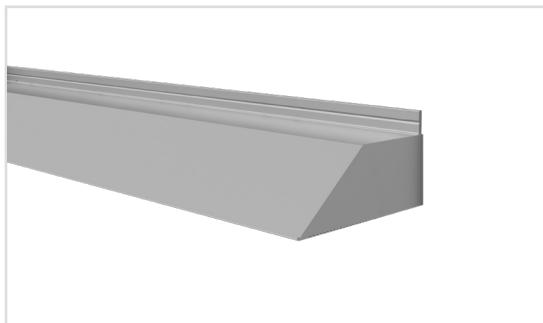


## Surfa® KnifeEdge 4 in. - Channel



Surfa KnifeEdge 4 in. is a surface-mount channel with an illuminated reveal that creates a vanishing cove effect when mounted horizontally below a ceiling. Its grooved underside allows for easy mud-in and painting to blend into any space.

### Key Specifications:

- Easy installation just place against the wall or ceiling and screw into place
- Linking system easily joins and aligns profile sections
- Designed to be mounted and then wired and lit. Wire run cavity further simplifies the installation process
- Designed to easily wrap around corners without the need for soldering or corner connectors that can create dark spots
- Sold in complete kits (4 or 7 ft.) to create a finished fixture in the field or custom lengths available through our build-to-order program

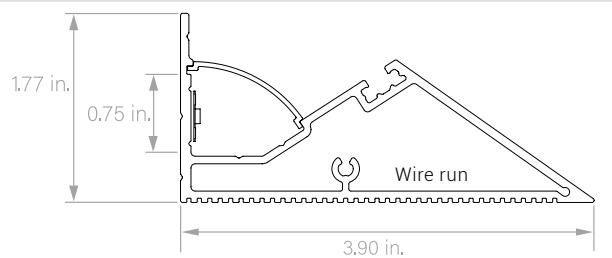
## PRODUCT INFORMATION

Item Number	Description
AL-50-46-0111-KIT	Surfa KnifeEdge 4 in. - 4 ft. Kit - Anodized Aluminum Finish: 1 Anodized Aluminum Channel, 1 Frosted Diffuser Cover
AL-50-46-0115-KIT	Surfa KnifeEdge 4 in. - 7 ft. Kit - Anodized Aluminum Finish: 1 Anodized Aluminum Channel, 1 Frosted Diffuser Cover
AL-50-46-9912-CLR	Surfa KnifeEdge 4 in. - Clear PC Cover, 4 ft.
AL-50-46-9915-CLR	Surfa KnifeEdge 4 in. - Clear PC Cover, 7 ft.
AL-50-46-9953-AL	Surfa KnifeEdge 4 in. - Decorative Aluminum End Caps for Sconce Luminaires - Contains 1 Aluminum End Cap/Set Screw - Left, 1 Aluminum End Cap/Set Screw - Right
AL-50-46-9992-AL	Surfa KnifeEdge 4 in. - Straight Linker - One Pack. Includes 2 Set Screws and Allen Key for Easy Installation
AL-50-46-9994-AL	Surfa KnifeEdge 4 in. - 90 Degree Linker for the KnifeEdge Miter Joint - One Pack. Includes 2 Pre-threaded Set Screws and Allen Key for Easy Installation

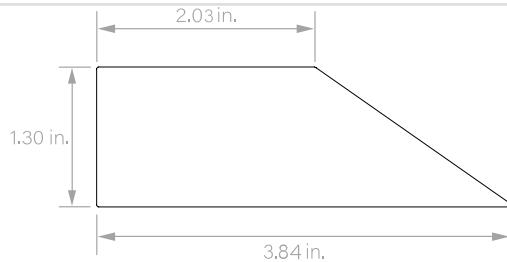
This channel is compatible with select tape lights, for full compatibility see our guide: [HERE](#).

# ALLOYLED® Specifications

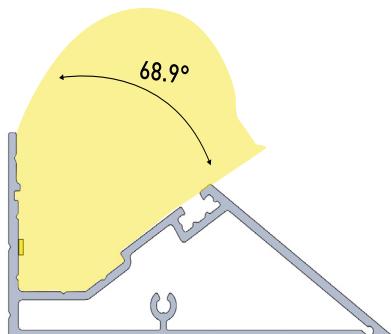
## DIMENSIONS AND BEAM ANGLE



Surfa KnifeEdge 4 in. Channel

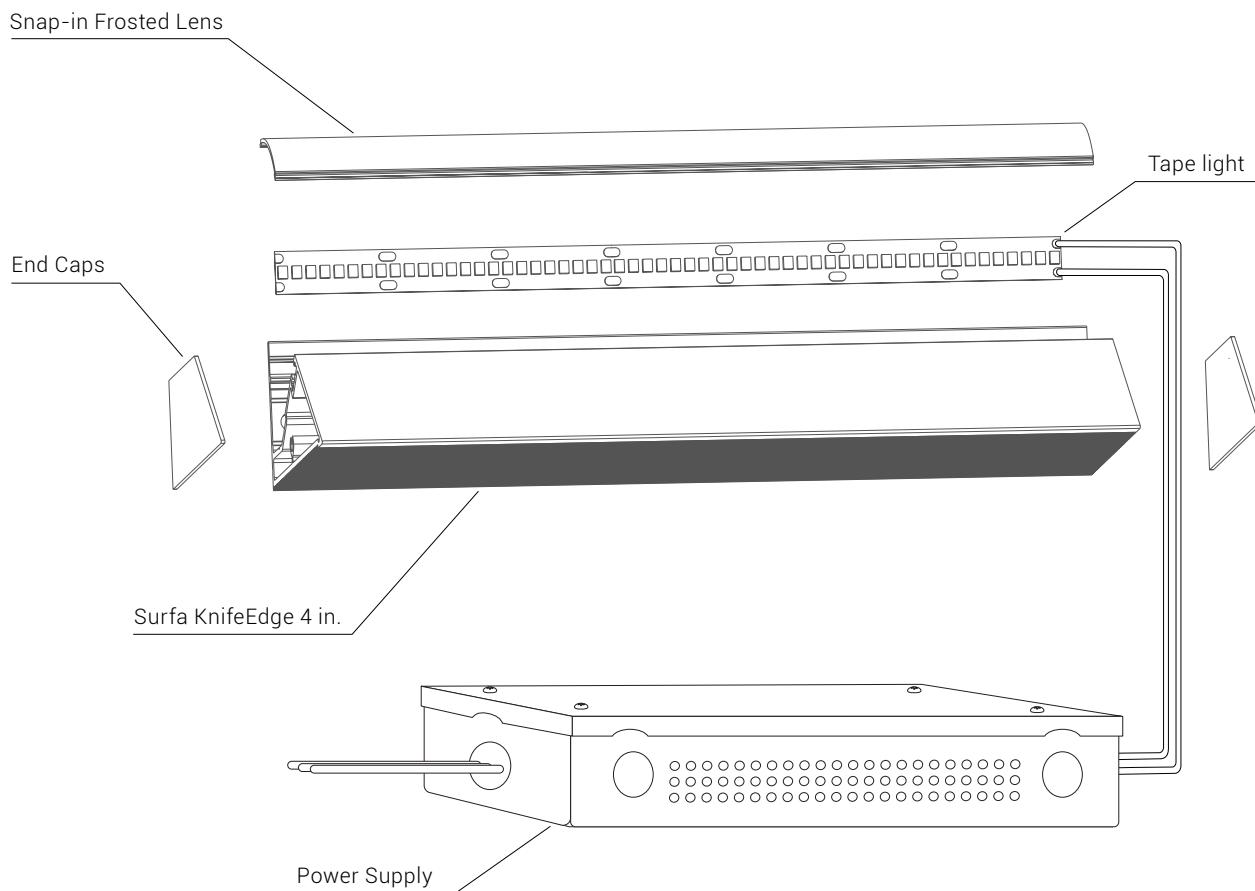


End Caps



Surfa KnifeEdge 4 in. Beam Angle

## COMPLETE SOLUTION



# ALLOY LED® Specifications

## RECOMMENDED TAPE LIGHT (SOLD SEPARATELY)

### Medium Output

PrimaLine 3 XT LED Tape Light



24V DC		Maximum Run = 40 ft.		Class 2 Maximum Run = 32 ft.	
20 ft. Spool	40 ft. Spool	Color Temperature*	Lumens / Foot	CRI	
AL-01-05-2401	AL-01-05-2421	2700K	207		98
AL-01-05-2402	AL-01-05-2422	3000K	234		98
AL-01-05-2403	AL-01-05-2423	4200K	240		96
AL-01-05-2404	AL-01-05-2424	5000K	244		96
AL-01-05-2408	AL-01-05-2428	3500K	191		97

### High Output

PrimaLine 4.4 Gen 2 LED Tape Light



24V DC		Maximum Run = 26 ft.		Class 2 Maximum Run = 21 ft.	
26 ft. Spool	50 ft. Spool	100 ft. Spool	Color Temperature*	Lumens / Foot	CRI
AL-01-15-2401	AL-01-15-2421	AL-01-15-2441	2700K	294	97
AL-01-15-2402	AL-01-15-2422	AL-01-15-2442	3000K	347	96
AL-01-15-2403	AL-01-15-2423	AL-01-15-2443	4200K	361	97
AL-01-15-2404	AL-01-15-2424	AL-01-15-2444	5000K	379	95

### High Output

PrimaLine 5.5 LP LED Tape Light



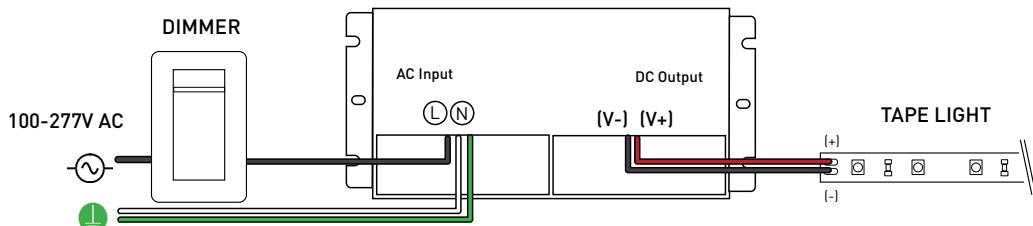
24V DC / Maximum Run = 13 ft.				
13 ft. Spool	26 ft. Spool	Color Temperature	Lumens per Foot	CRI
AL-01-07-2411	AL-01-07-2431	2700K	457	98
AL-01-07-2412	AL-01-07-2432	3000K	465	97
AL-01-07-2413	AL-01-07-2433	4200K	477	97
AL-01-07-2414	AL-01-07-2434	5000K	462	96
AL-01-07-2418	AL-01-07-2438	3500K	459	98

# ALLOY LED® Specifications

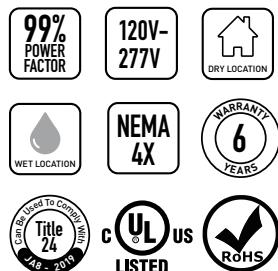
## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



Alloy LED PowerFactor™ Dimmable Power Supplies with Integrated UL Listed Junction Box  
Compact, highly efficient, and code-compliant power supply with versatile and smooth dimming capabilities.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



### Single Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class
AL-98-10-12030	12V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-12060	12V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-12120	12V DC	120W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	No
AL-98-10-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-10-24150	24V DC	150W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24200	24V DC	200W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24300	24V DC	300W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	No

### Class 2 Compliant Multi-Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class
AL-98-10-12300-MT	12V DC	300W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes
AL-98-10-24192-MT	24V DC	192W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	Yes
AL-98-10-24288-MT	24V DC	288W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes

Note: PowerFactor assumes 80% load.

Inspectors prefer power supply to be used with junction box.

For dimmer compatibility, refer to drivers specification sheet.

# ALLOY LED® Specifications

## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

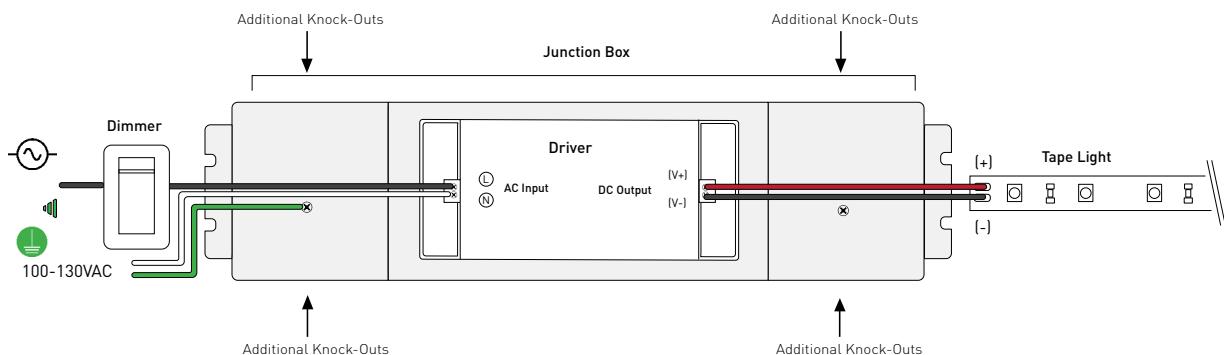
Alloy LED Primavolt® No Minimum Load Dimmable Power Supplies with ETL Listed Junction Box  
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



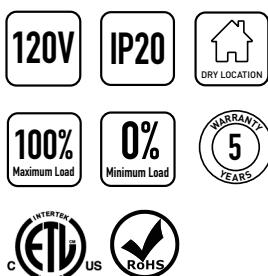
Dry Location Model  
White model for 60W and lower



Wet Location Model  
Black model for 80W and higher



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



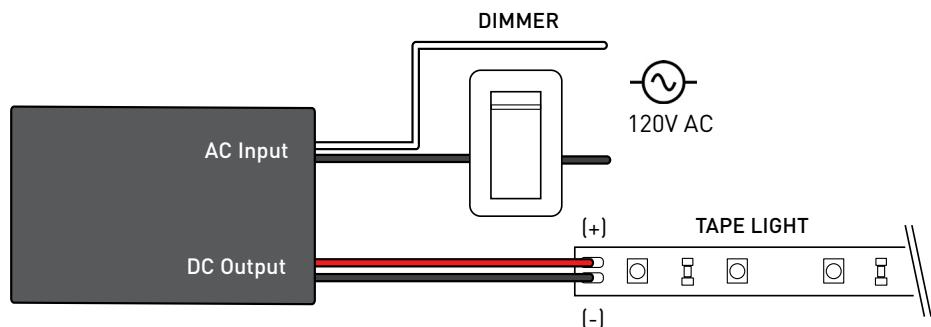
Item Number	Output Voltage	Wattage	Minimum Load	Dimensions (Junction Box) (L x W x H)	Class 2
AL-98-03-12024-NM	12V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12048-NM	12V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12060-NM	12V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12080-NM	12V DC	80W	0%	14.96 x 3.03 x 2.24 in.	No
AL-98-03-12120-NM	12V DC	120W	0%	14.96 x 3.03 x 2.24 in.	No
AL-98-03-24024-NM	24V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24048-NM	24V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24060-NM	24V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24080-NM	24V DC	80W	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24096-NM	24V DC	96W	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24150-NM	24V DC	150W	0%	15.98 x 3.43 x 2.36 in.	No
AL-98-03-24200-NM	24V DC	200W	0%	15.98 x 3.43 x 2.36 in.	No

Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations.  
Always install in accordance with local and national electrical code regulations.  
Inspectors prefer power supply to be used with junction box.  
For dimmer compatibility, refer to drivers specification sheet.

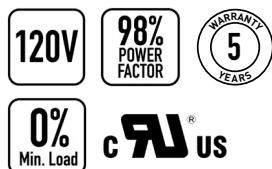
## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

### ELV Dimmable Power Supplies for Remote Enclosures

The drivers are derated, but when installed in a small enclosure with no heatsink or air circulation, we recommend a maximum load of 40W.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



Item Number	Output	Wattage	Dimensions (L x W x H)	Class 2
AL-98-08-12060	12V DC	60W	2.66 x 1.30 x 0.83 in.	Yes
AL-98-08-24060	24V DC	60W	2.66 x 1.30 x 0.83 in.	Yes

Note: Inspectors prefer power supply to be used with junction box.  
For dimmer compatibility, refer to drivers specification sheet.

# ALLOY LED® Specifications

## DIMMING ACCESSORIES (SOLD SEPARATELY)

### Lutron® Dimming Accessories

By participating in Lutron's OEM Advantage program, Alloy LED is able to offer a range of the highest quality low voltage power supplies and selected controls on the market.



Hi-lume Premier  
0.1% EcoSystem /  
3-wire LED Driver  
(96W 24VDC)



Hi-lume 1% LED Driver 40W  
- EcoSystem / 3-wire control  
- 2-wire 120V forward  
phase control



Lutron Vive PowPak RF Module  
- RF module for EcoSystem LED  
driver control  
- Use with the Lutron EcoSystem  
drivers shown to "Vive-enable"  
Alloy LED products

### Lutron® Hi-lume LED Drivers

Item Number	Output	Wattage	Minimum Load	Class 2
AL-98-07-12040	12V DC	40W	N/A	Yes
AL-98-07-12040-3WIRE	12V DC	40W	N/A	Yes
AL-98-07-24040	24V DC	40W	N/A	Yes
AL-98-07-24040-3WIRE	24V DC	40W	N/A	Yes
AL-98-07-24096-3WIRE	24V DC	96W	N/A	Yes

### Lutron® Controls

Item Number	Description	Voltage
AL-98-07-9901	EcoSystem Control Module	N/A
AL-98-07-9901-8	EcoSystem Control Module - 8 pack	N/A
AL-98-07-9950	CL Dimmer	120V AC
AL-98-07-9950-FPLATE	CL Dimmer faceplate	N/A

# ALLOY LED® Specifications

## DIMMING ACCESSORIES (SOLD SEPARATELY)

### Dimmers and Switches

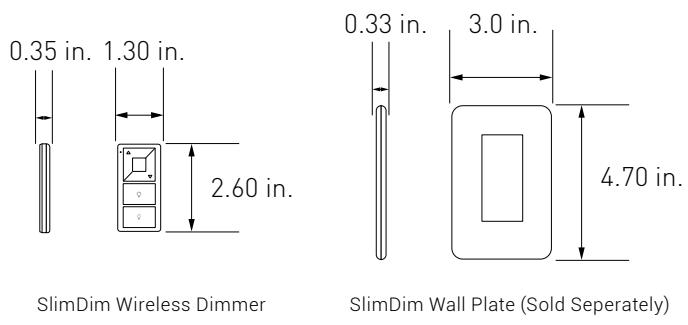
#### **SlimDim Wireless Dimmer Switch**

Using long-range RF technology, these LED dimmers connect wirelessly to a receiver, offering freedom to mount anywhere. Can also be used as a fob for mobile, hand-held control.

AL-70-01-0001 SlimDim Wireless Dimmer

AL-70-01-0002 Single Color Receiver (96W max.) (sold separately) 

AL-98-07-9950 -FPLATE SlimDim Wall Plate (sold separately)



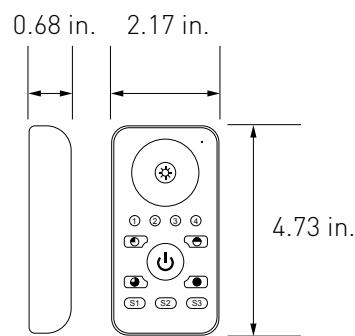
#### **Remote Control Dimmer Switch**

Provides full dimming and on/off control, and includes a touch wheel that allows for direct visual selection of brightness. It can also operate up to four independent zones.

AL-60-03-0001 Remote Control Dimmer Switch

AL-70-01-0002 Single Channel Receiver (sold separately) 

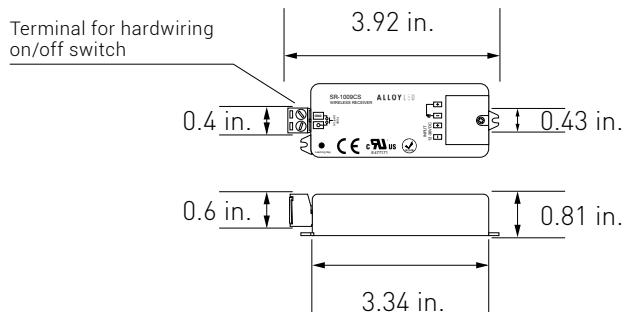
AL-60-03-0004-V2 Wireless Receiver (RGB & RGBW) (sold separately) 



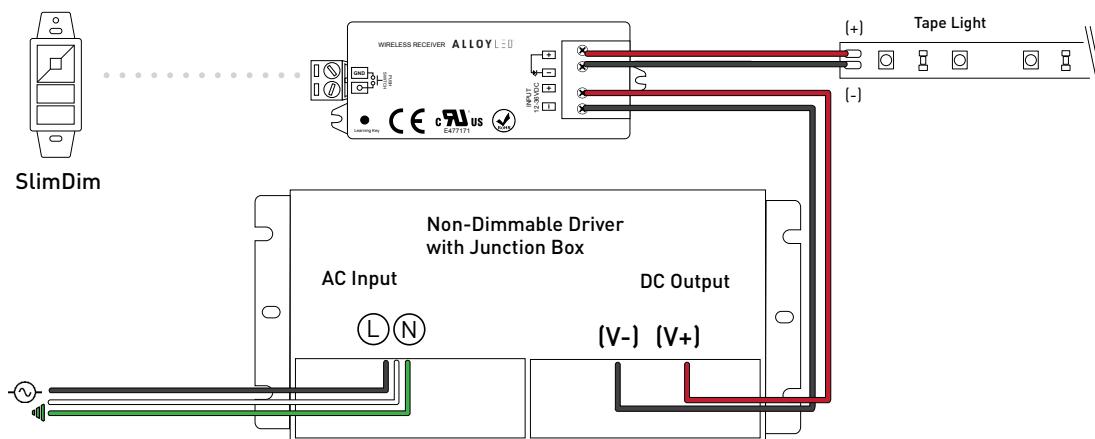
#### **Single Channel Wireless Receiver**

Pair with the Remote Control Dimmer Switch or the SlimDim Wireless Dimmer to dim PrimaLine tape lights. Use one remote to make independent lighting zones with multiple receivers with certain controllers.

AL-70-01-0002 Single Channel Wireless Receiver



## WIRING DIAGRAM

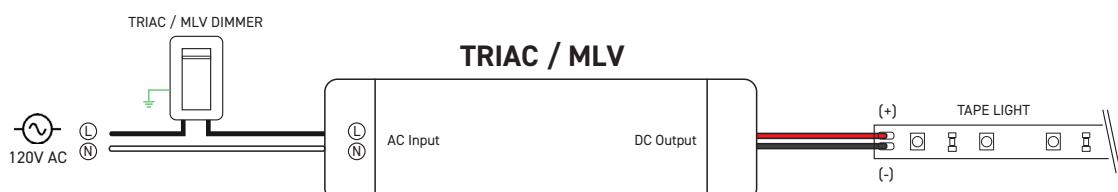
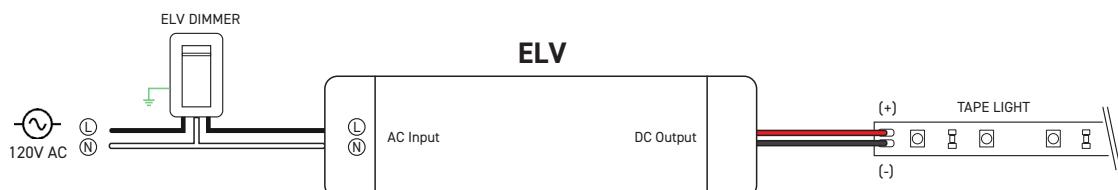


# ALLOY LED® Specifications

## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

### Alloy LED TRIAC/MLV/ELV Dimmable Drivers for Remote Locations

Offers stable power in even in the most remote settings. Compatibility with TRIAC, ELV, or MLV dimmers.



Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.



Item Number	Output Voltage	Wattage	Dimensions (L x W x H)	Class 2
AL-98-09-12060	12V DC	60W	3.31 x 1.57 x 0.98	Yes
AL-98-09-24096	24V DC	96W	3.31 x 1.57 x 0.98	Yes

Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.