Suspan 1 Gen 2 Suspended Channel

Shown with closed end cap
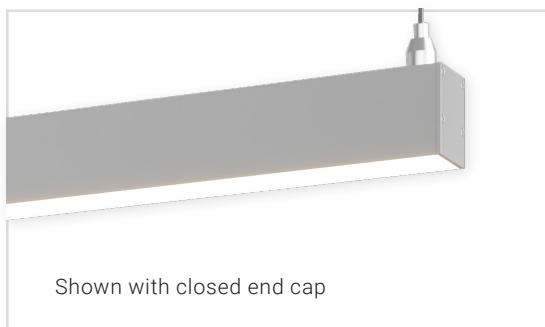
Suspan 1 Gen 2 channels are designed for creating clean, finished suspended fixtures for primary overhead lighting. Boasting seamless construction, this channel offers high-quality aluminum and precision-cut end caps to ensure no light escapes from unintended spaces.

- Thermally-balanced design for maximum cooling
- Full range of accessories for a great-looking installation

PRODUCT INFORMATION

| Item Number	Description
AL-50-31-0111-KIT	4 ft. Kit - Includes 1 Aluminum Channel and Pre-installed Lens, 2 Pair Pack of Precision-cut End Caps with screws, and Ceiling Mount Kit
AL-50-31-0111-KIT-05	Channel Kit - 4 ft. - Bundle of 5
AL-50-31-0111-KIT-10	Channel Kit - 4 ft. - Bundle of 10
AL-50-31-0115-KIT	7 ft. Kit - Includes 1 Aluminum Channel and Pre-installed Lens, 2 Pair Pack of Precision-cut End Caps with screws, and Ceiling Mount Kit
AL-50-31-0115-KIT-05	Channel Kit - 7 ft. - Bundle of 5
AL-50-31-0115-KIT-10	Channel Kit - 7 ft. - Bundle of 10
AL-50-31-9975-WH	Canopy Kit - White - includes 12 in. of Powered Suspension/Low Voltage Cable in one
AL-50-31-9991-AL	Ceiling Mounting Kit - Includes 2 Channel Mounts, 2 Ceiling Mounts and 2 x 10 ft. Mounting Wires
AL-50-31-9951-AL	Precision-cut End Caps - 2 Pair Pack: 2 Open, 2 Closed with screws
AL-50-31-9992-AL	Straight Connector - for connecting two Suspan 1 Gen 2 Channels Together
AL-50-31-9993-AL	L Bracket - for Mitred Corners with Lens Oriented Up or Down
AL-50-31-9994-AL	L Bracket - for Mitred Corners with Lens Oriented In or Out

DIMENSIONS

1.225 in.
1.5 in.
1.42 in.
up to 10 ft.

1.36 in.
1.50 in.
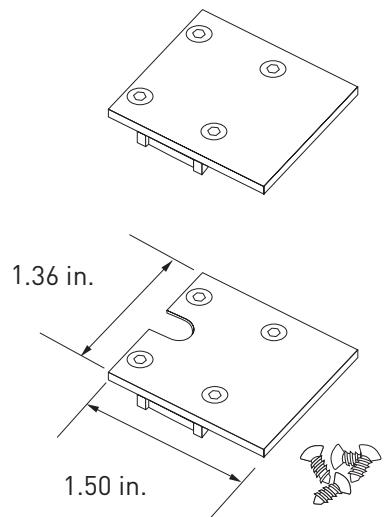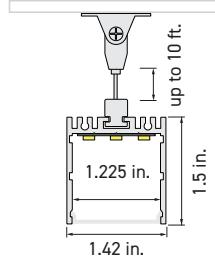
End Caps
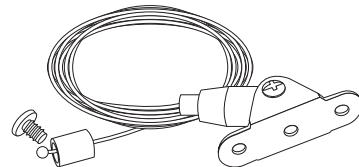
Channel Mount, Ceiling Mount, and Mounting Wire (10 ft.)
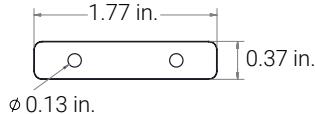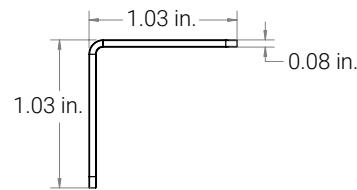
1.77 in.
0.37 in.
ø 0.13 in.

Straight Connector

1.03 in.
1.03 in.
0.08 in.
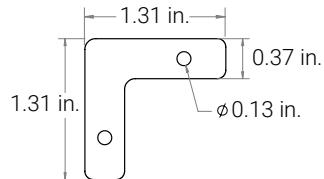
L Bracket - for Mitred Corners with Lens Oriented Up or Down

Canopy Kit (Sold Separately)

AL-50-31-9975-WH

1.31 in.
1.31 in.
0.37 in.
ø 0.13 in.

L Bracket - for Mitred Corners with Lens Oriented In or Out

5 in.

Junction Box

0.28 in.

1.39 in.
0.47 in. ø

Up to 10 ft.
Mounting Clip

1 in.

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Specifications subject to change without notice.

v9
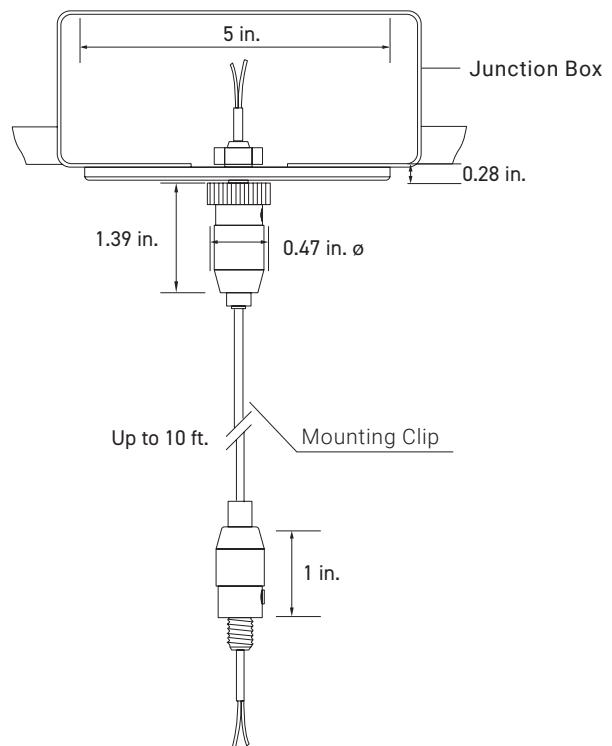
COMPLETE SOLUTION
(Shown with the optional Canopy Kit)

Ceiling Mount

Canopy Kit

Up to 10 ft.

Suspan Aluminum Channel

Up to 10 ft.

End Cap

Open End Cap

High Efficiency Light Engine

Snap-in Frosted Lens

Power Supply

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Specifications subject to change without notice.

v9
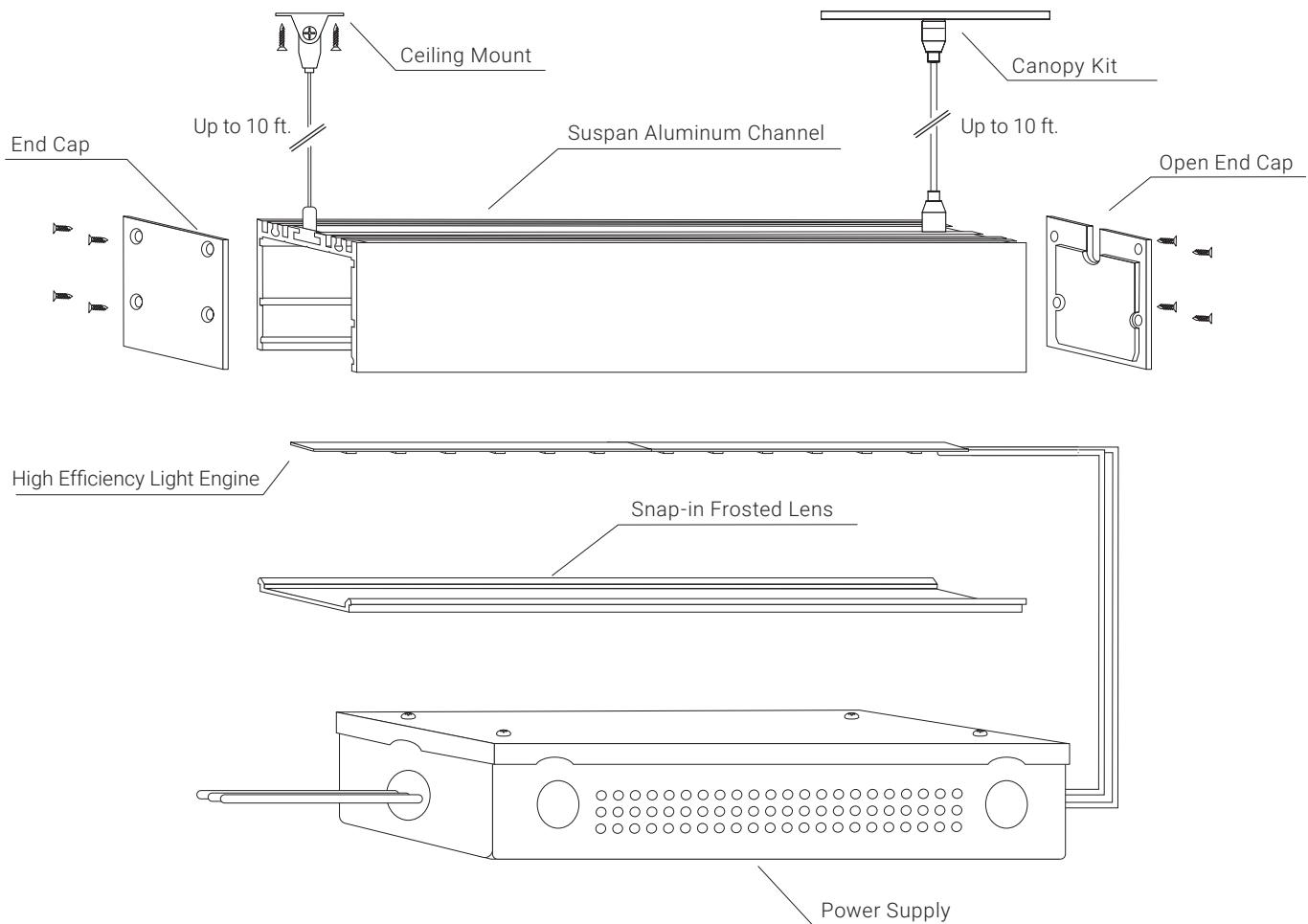
SUSPAN AND TAPE LIGHT HOTSPOT AND COMPATIBILITY GUIDE

| Tape Light	Wire conn.	TapeMate	Hotspot
PrimaLine® 1.5	Y	Y	0
PrimaLine 1.5 XT	Y	Y	0
PrimaLine 2.5 COB		Y	0
PrimaLine 2.7 LP	S	Y	0
PrimaLine 3	Y	Y	0
PrimaLine 3 XT	Y	Y	0
PrimaLine 4.4 Gen 2	Y	Y	0
PrimaLine 4.4 XT Gen 2	Y	Y	0
PrimaLine 5.5 LP	Y	Y	0
PrimaLine 6.6 Gen 2	Y		0
PrimaLine 7	S	Y	0
PrimaLine 8 Gen 2		S	0
Varien™ 5.5 Dim-to-Warm	S	Y	0
Radialux® 2.2 RGB	Y		0
Radialux 4.2 COB RGB			0
Radialux 4.4 RGB	Y		0
Radialux 4.4 RGBW	Y		0
Radialux 4.7 LP RGBW		S	0
Radialux 5.9 RGBW	Y		0
Radialux 8.8 RGB			N/A
PrimaLine 1.5 Wet	Y		0
PrimaLine 1.5 XT Wet	Y		0
PrimaLine 3 Wet	Y		0
PrimaLine 3 XT Wet	Y		0
PrimaLine 4.4 XT Gen 2 Wet	Y		0
Radialux 2.2 RGB Wet	Y		0
Radialux 4.4 RGB Wet	Y		0
Radialux 4.4 RGBW Wet	Y		0
Radialux 5.9 RGBW Wet	Y		0

Chart Key

|	
Y	Tape, channel, and connector fit
Y*	(Wet Tape Only) Tape light end caps do not fit
S	(Dry Tape Only) Connector does not fit in channel / leads should be soldered
	Does not fit width and /or height

Hotspot Values

0   1   2   3   4   5
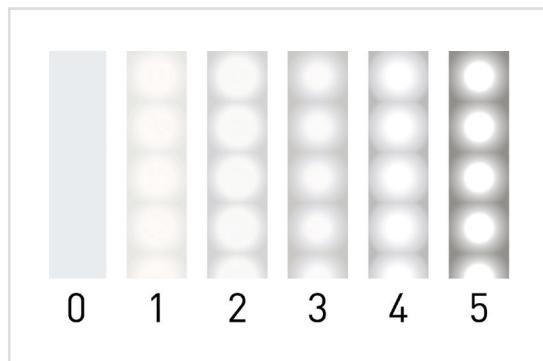
Compatibility Visual Key

Y   S   Y*

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Specifications subject to change without notice.
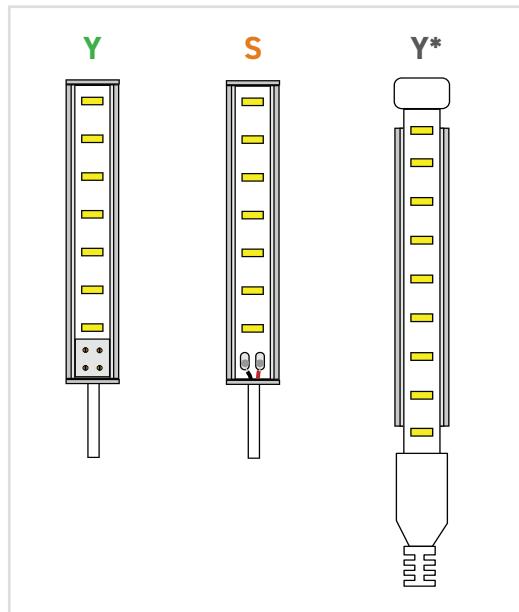
RECOMMENDED TAPE LIGHT (SOLD SEPARATELY)

High Output
PrimaLine 6.6 Gen 2 LED Tape Light

24V DC	Maximum Run = 20'		Class 2 Maximum Run = 14.5'	
8 ft. Spool	**20 ft. Spool**	**Color Temperature***	**Lumens / Foot**	**CRI**
AL-01-18-2401	AL-01-18-2411	2700K	656	97
AL-01-18-2402	AL-01-18-2412	3000K	631	96
AL-01-18-2403	AL-01-18-2413	4200K	806	97
AL-01-18-2404	AL-01-18-2414	5000K	835	95

Super High Output
PrimaLine 8 Gen 2 LED Tape Light

24V DC	Maximum Run = 20'	Class 2 Maximum Run = 12'	
8 ft. Spool	**Color Temperature***	**Lumens / Foot**	**CRI**
AL-01-20-2401	2700K	820	97
AL-01-20-2402	3000K	810	97
AL-01-20-2403	4200K	987	97
AL-01-20-2404	5000K	1,106	95

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Specifications subject to change without notice.
v9

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

**ALLOY'S
TOP CHOICE**

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.
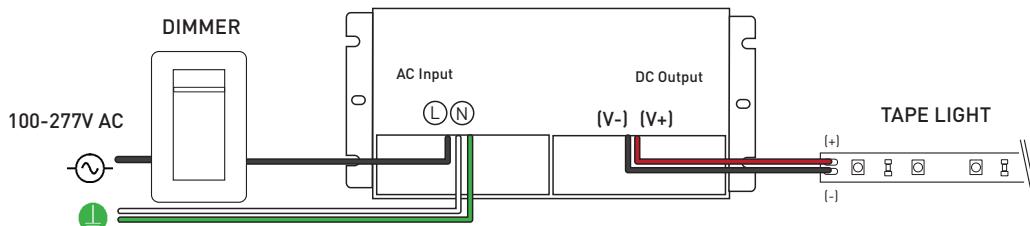
Knockout

Knockouts included
30W and 60W models = 0.50 in. diameter
96W-300W models = 0.88 in. diameter

Knockout

DIMMER

100-277V AC

AC Input

DC Output

(V-) (V+)

TAPE LIGHT

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

99% POWER FACTOR **120V-277V** **DRY LOCATION**

WET LOCATION **NEMA 4X** **6 YEARS WARRANTY**

Title 24 Can Be Used To Comply With JA8 - 2019 **c(UL)us LISTED** **RoHS**
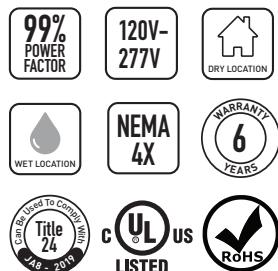
Single Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
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 2
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.

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Specifications subject to change without notice.

v9

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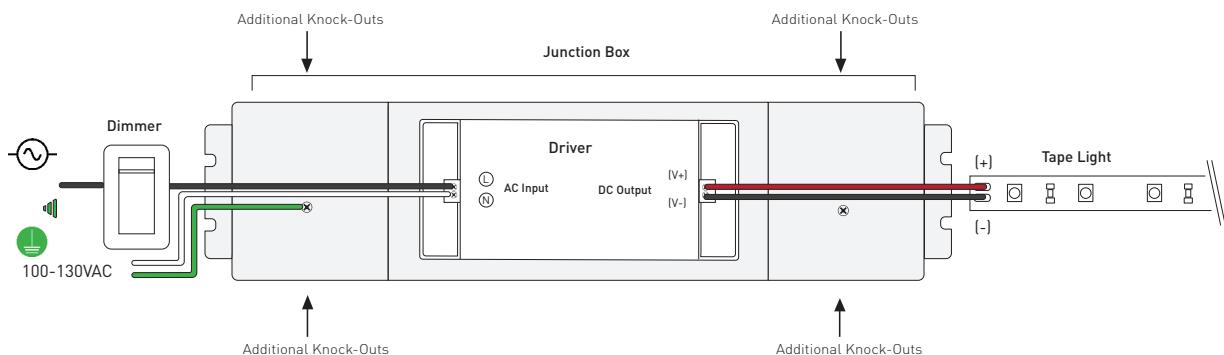
Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.

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.
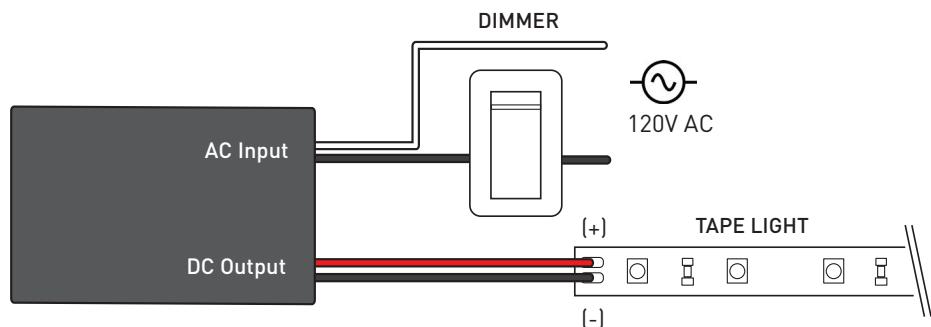
LED DRIVER

Class 2
SOFT START SHORT CIRCUIT &
OVERLOAD PROTECTED
Dimmable with Reverse
Phase (ELV) type dimmers
PRI: 120V AC ,0.5A 50/60Hz
SEC: 24V DC,0-60W

Tc
Tc: 90°C Max.

cULus
E364143

RoHS
COMPLIANT

Suitable for dry and damp locations

DIMMER

120V AC

AC Input

DC Output

(+)   TAPE LIGHT

(-)

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

120V

98% POWER FACTOR

WARRANTY 5 YEARS

0% Min. Load

cULus

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.

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

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)

0.35 in. 1.30 in.

2.60 in.

0.33 in. 3.0 in.

4.70 in.

SlimDim Wireless Dimmer

SlimDim Wall Plate (Sold Seperately)
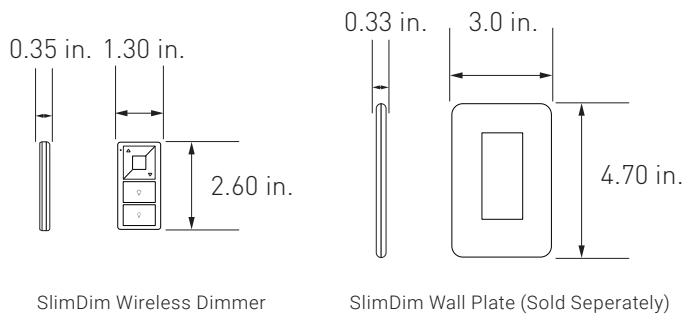
Remote Control Dimmer Switch

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)

0.68 in. 2.17 in.

4.73 in.
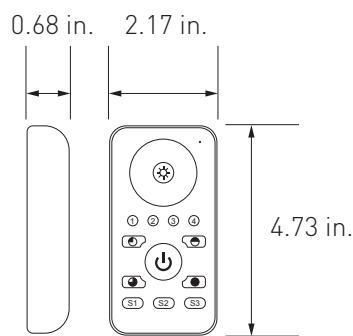
Single Channel Wireless Receiver

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
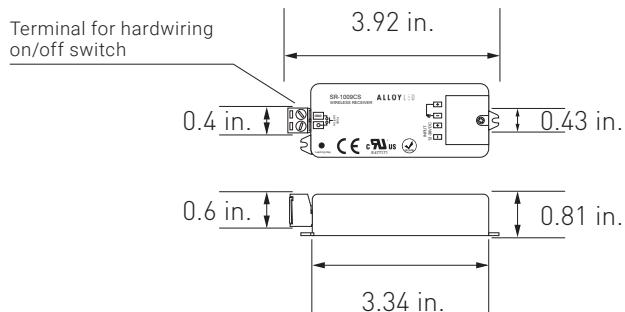
Terminal for hardwiring on/off switch

3.92 in.

0.4 in.   0.43 in.

0.6 in.   0.81 in.

3.34 in.

WIRING DIAGRAM

SlimDim

WIRELESS RECEIVER **ALLOY**L∃D

Tape Light
(+)
(-)

Non-Dimmable Driver with Junction Box

AC Input

DC Output

(L)(N)

(V-) (V+)
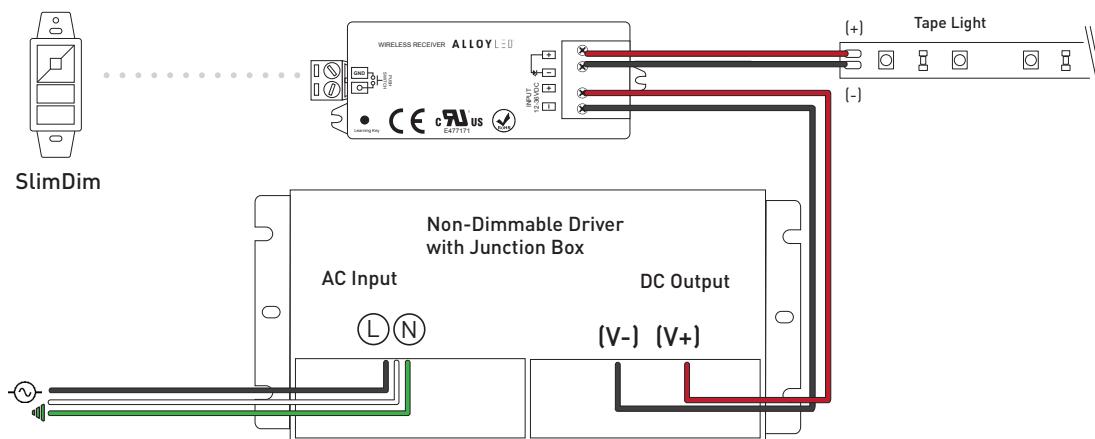
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

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.
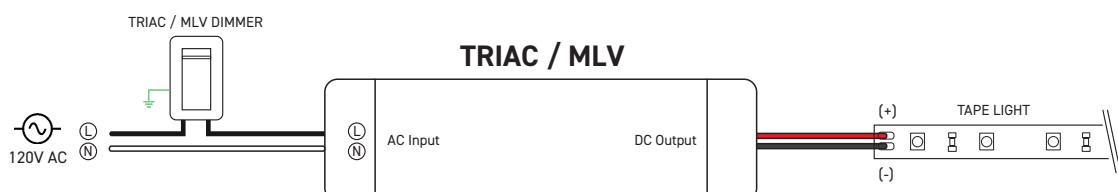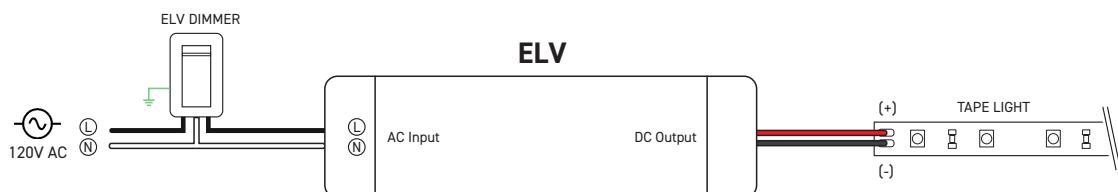
ELV

ELV DIMMER

120V AC — L / N — AC Input — DC Output — (+) TAPE LIGHT (-)

TRIAC / MLV

TRIAC / MLV DIMMER

120V AC — L / N — AC Input — DC Output — (+) TAPE LIGHT (-)

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.

120V | **100%** Maximum Load | **20%** Min. Load

DRY LOCATION | (water icon) | c(UL)us LISTED

CLASS 2 | CLASS P | TYPE HL

SELV | RoHS | WARRANTY 5 YEARS