



**NEPCO**

*Daily Deliveries Throughout*

*New England*

**800-327-7562**

**LED, POWER  
SUPPLIES  
& ACCESSORIES  
CATALOG  
2018**



Keystone SignHero

**SERVICING THE SIGN INDUSTRY AND DOING IT RIGHT SINCE 1928**

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# Did you know?

• **OVERHEATING & WATER DAMAGE** are two of the biggest causes of premature failure. Power supplies should never be mounted at the bottom of an exterior sign where moisture is present. Even a weather sealed module or power supply requires adequate spacing & ventilation to dissipate heat build up. Power supplies should always be mounted vertically on interior sides of exterior signage whenever possible.

• **THE LOWER THE LOAD ON LED POWER SUPPLIES, THE LONGER THEY WILL LAST.**

Always load LED modules to the recommended manufacturers power supply loading chart, or do the math....

Example: 10 LED Modules

$$\begin{aligned} & @ \text{ MOD wattage: } \frac{1.08}{10.8} \text{ per} \\ & 15\% \text{ cushion} + \frac{1.62}{10.8} \\ & = 12.42 \end{aligned}$$

In this instance your final value is 12.42 putting you slightly over a 12 watt power supply (not offered) so a 20 watt power supply or larger would be necessary.

*Note: Under powering LED's does not have an affect on LED modules or power supplies. Overpowering has a direct affect on LED modules & power supplies.*

• **DISTANCE & PLACEMENT OF POWER SUPPLY IS EXTREMELY CRITICAL.**

The importance of voltage drop for LED lighting is that an LED requires a minimum amount of current to properly light. Less than the minimum current can cause an LED to flicker, operate with less lumen output or shift in color.

**SUGGESTED LED TO POWER SUPPLY WIRE GAUGE CHART**

**EXPECT A 3-5% VOLTAGE DROP**

**12V VOLTAGE DROP AND WIRE LENGTH DISTANCE CHART**

Wire Gauge	10W / .83A	20W / 1.67A	30W / 2.5A	40W / 3.33A	50W / 4.17A	60W / 5A
18 AWG	34 ft.	17 ft.	11 ft.	8 ft.	6 ft.	5 ft.
16 AWG	54 ft.	27 ft.	18 ft.	13 ft.	10 ft.	9 ft.
14 AWG	86 ft.	43 ft.	29 ft.	21 ft.	17 ft.	14 ft.
12 AWG	134 ft.	68 ft.	45 ft.	34 ft.	27 ft.	22 ft.
10 AWG	199 ft.	99 ft.	66 ft.	49 ft.	39 ft.	33 ft.

**24V VOLTAGE DROP AND WIRE LENGTH DISTANCE CHART**

Wire Gauge	10W / .42A	20W / .83A	30W / 1.25A	40W / 1.67A	50W / 2.08A	60W / 2.5A	70W / 2.92A	80W / 3.33A	96W / 4A
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	14 ft.
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	22 ft.
14 AWG	345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	36 ft.
12 AWG	539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	56 ft.
10 AWG	784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	82 ft.

# BELOW IS OUR QUICK & EASY COMPARISON CHART FOR ALL WHITE STOCKING LEDS

(STOCKING COLORS NOT LISTED)

## LED MODULES

ITEM#	VENDOR	COLOR	KELVIN TEMP	WATT	MODS PER FOOT	PIXELS PER MOD	MIN. DEPTH	VIEWING ANGLE	LUMENS PER FOOT	LUMENS PER MOD	MODS PER BOX	FOOTAGE PER BOX	WARRANTY
JE-004CW-05L	JS LED	Cool White	9000	0.36	2.5	3	3"	120°	82.5	33	100	38'	5 Year
JE-004CW-15L	JS LED	Cool White	8700	0.72	2	3	4"	120°	140	70	100	46'	5 Year
JE-004W18LM160D	JS LED	White	6800	0.72	2	3	3"	160°	130	65	100	48'	5 Year
JE-004W-MN	JS LED	White	7250	0.36	3	2	3"	120°	69	23	100	28'	5 Year
S07W2CWBLP170D	Allanson	White	6500	0.73	2	2	1.5"	170°	140	70	72	36'	5 Year
S1W2CWII-160D	Allanson	White	6500	1	2	2	3"	150°	200	100	50	25'	5 Year
S05W2CWII-160D	Allanson	White	6500	0.5	2	2	3"	150°	100	50	100	25'	5 Year

## LED LAMP REPLACEMENT & LARGE CHANNEL LETTER/3 WATT MODULE

ACLW-CW-3W	Allanson	White	6300	3	0.75	3	6"	155°	320	427	18	24'	4 Year
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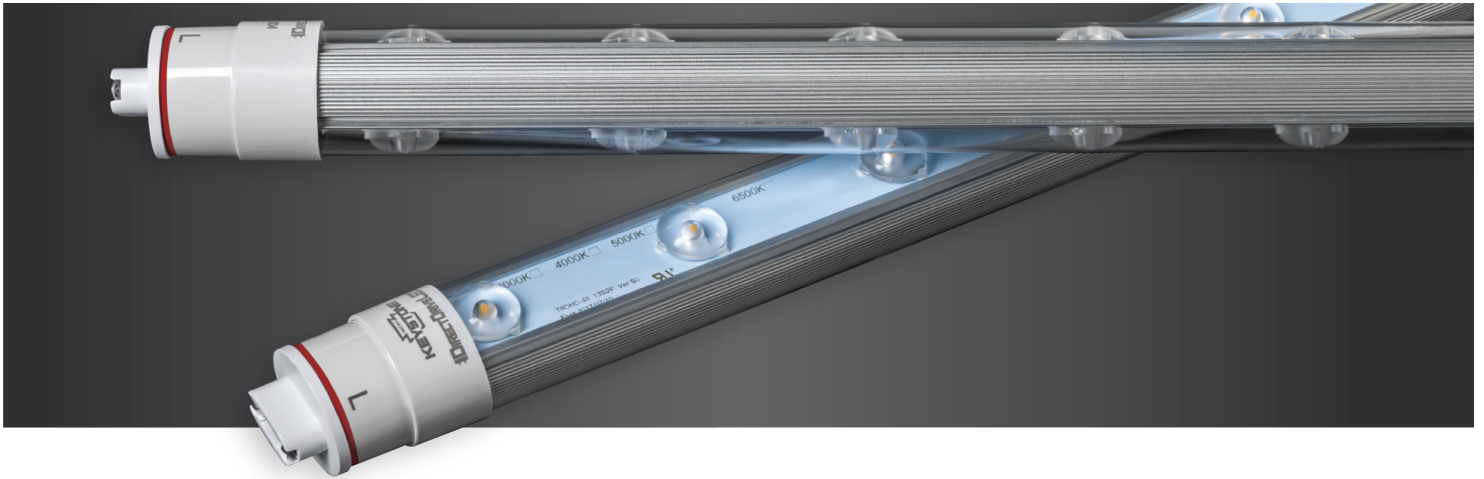
## LED LAMP REPLACEMENT/SIGN HERO

ITEM#	VENDOR	COLOR	KELVIN TEMP	WATT	MIN. DEPTH	VIEWING ANGLE	TOTAL LUMENS PER LAMP	SPACING	NO POWER SUPPLY NEEDED	MULTIVOLT 120V/277V	WARRANTY
A-18-6500K-DS	Keystone	Daylight White	6500	7	6"	360°	900	12"	DIRECT DRIVE	120V / 277V	5 year
B-24-6500K-DS	Keystone	Daylight White	6500	10	6"	360°	1200	12"	DIRECT DRIVE	120V / 277V	5 year
C-30-6500K-DS	Keystone	Daylight White	6500	13	6"	360°	1600	12"	DIRECT DRIVE	120V / 277V	5 year
D-36-6500K-DS	Keystone	Daylight White	6500	16	6"	360°	2000	12"	DIRECT DRIVE	120V / 277V	5 year
E-42-6500K-DS	Keystone	Daylight White	6500	18	6"	360°	2250	12"	DIRECT DRIVE	120V / 277V	5 year
F-48-6500K-DS	Keystone	Daylight White	6500	21	6"	360°	2600	12"	DIRECT DRIVE	120V / 277V	5 year
G-60-6500K-DS	Keystone	Daylight White	6500	26	6"	360°	3250	12"	DIRECT DRIVE	120V / 277V	5 year
H-64-6500K-DS	Keystone	Daylight White	6500	28	6"	360°	3450	12"	DIRECT DRIVE	120V / 277V	5 year
I-72-6500K-DS	Keystone	Daylight White	6500	31	6"	360°	4000	12"	DIRECT DRIVE	120V / 277V	5 year
J-84-6500K-DS	Keystone	Daylight White	6500	37	6"	360°	4700	12"	DIRECT DRIVE	120V / 277V	5 year
K-96-6500K-DS	Keystone	Daylight White	6500	42	6"	360°	5300	12"	DIRECT DRIVE	120V / 277V	5 year
L-108-6500K-DS	Keystone	Daylight White	6500	47	6"	360°	5800	12"	DIRECT DRIVE	120V / 277V	5 year
M-120-6500K-DS	Keystone	Daylight White	6500	52	6"	360°	6400	12"	DIRECT DRIVE	120V / 277V	5 year





**DIRECT DRIVE TECHNOLOGY NO POWER SUPPLIES  
NEEDED!**



## Introducing Keystone's 360° LED Sign Tube: The easiest LED installation

A perfect solution for retrofits or new sign installations. **With revolutionary DirectDrive technology there's no need for an external driver or ballast, saving precious labor time and costs.** Maintenance professionals install the 360° LED Sign Tube in five minutes or less!

### Why your customers will love it

**6" Depth from face to lamp - 12" standard spacing**

#### Quick and easy installation

Our DirectDrive technology eliminates the need for an external driver or ballast while still using existing sockets. This saves time and hassle for field technicians.

#### Consistent lighting

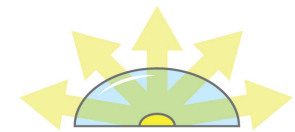
We've added optical lenses to cover each individual LED chip in the tube, which eliminates hot spots and ensures consistent light distribution across both faces of the sign.

#### Flexible for your needs

We've provided a rotatable R17D end cap that swivels, ensuring that the tube can be adjusted to provide a light beam in any direction.

#### Built to last

Count on Keystone for a tube with a 50,000 hour lifetime and a 5 year warranty. Heavy duty aluminum heatsink ensures LEDs run cooler for longer. Place and aluminum construction ensures less breakage.



Wide light distribution = No shadowing  
No hotspots



**ROTATABLE  
BASE  
R17D**

UL Classified: LED Sign Retrofit, Evaluated to UL 48 / UL 879A Standards  
Listed in the UL SAM Manual

### ENERGY SAVINGS\*

**540W**  
(6) F96T12HO

**VS**

**252W**  
(6) SIGN HERO LED

\*Standard 6 lamp, 8' sign with magnetic ballast

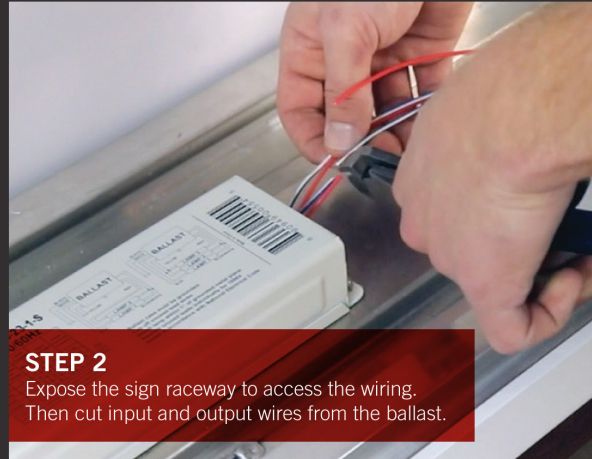


## Bypass the ballast and install in five minutes or less



### STEP 1

Turn off the power at the breaker and remove the existing fluorescent lamps.

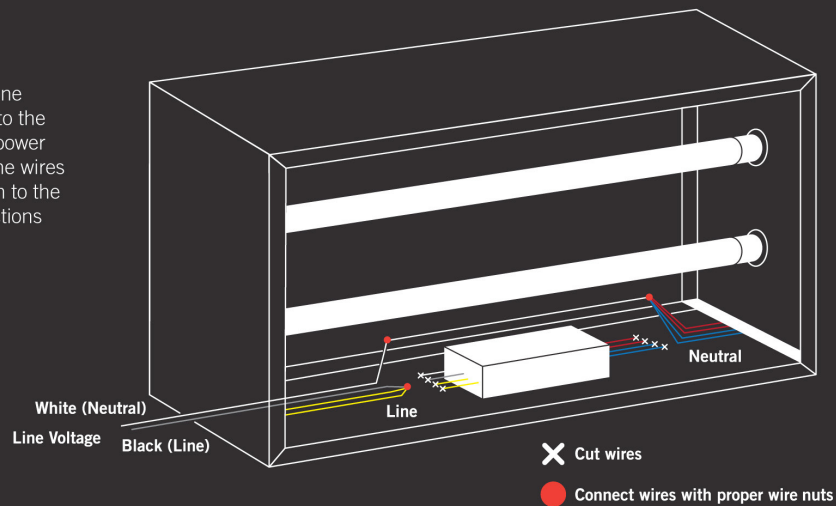


### STEP 2

Expose the sign raceway to access the wiring. Then cut input and output wires from the ballast.

### STEP 3

Take the wires coming from one side of the sign and connect to the line wire coming in from the power source. Then connect all of the wires from the other side of the sign to the neutral wire. Make all connections with proper wire nuts.



### STEP 4

Replace the raceway covers and install the LED lamps. Restore power to the fixture and confirm everything is working properly.

For installation video visit [keystonetech.com/video](http://keystonetech.com/video)

## Available for all size sign cabinets

The 360° LED Sign Tube is available in all of the lamp lengths typically used to replace T8HO & T12HO fluorescent lamps, including:

Part Number	Nominal Length	Wattage	Color Temp	Total Lumens	Lumens Per Side
A-18-6500K-DS	18"	7	6500K	900	450
B-24-6500K-DS	24"	10	6500K	1200	600
C-30-6500K-DS	30"	13	6500K	1600	800
D-36-6500K-DS	36"	16	6500K	2000	1000
E-42-6500K-DS	42"	18	6500K	2250	1125
F-48-6500K-DS	48"	21	6500K	2600	1300
G-60-6500K-DS	60"	26	6500K	3250	1625
H-64-6500K-DS	64"	28	6500K	3450	1725
I-72-6500K-DS	72"	31	6500K	4000	2000
J-84-6500K-DS	84"	37	6500K	4700	2350
K-96-6500K-DS	96"	42	6500K	5300	2650
L-108-6500K-DS	108"	47	6500K	5800	2900
M-120-6500K-DS	120"	52	6500K	6400	3200

**4000K COLOR TEMP AVAILABLE. SPECIAL ORDER ONLY**

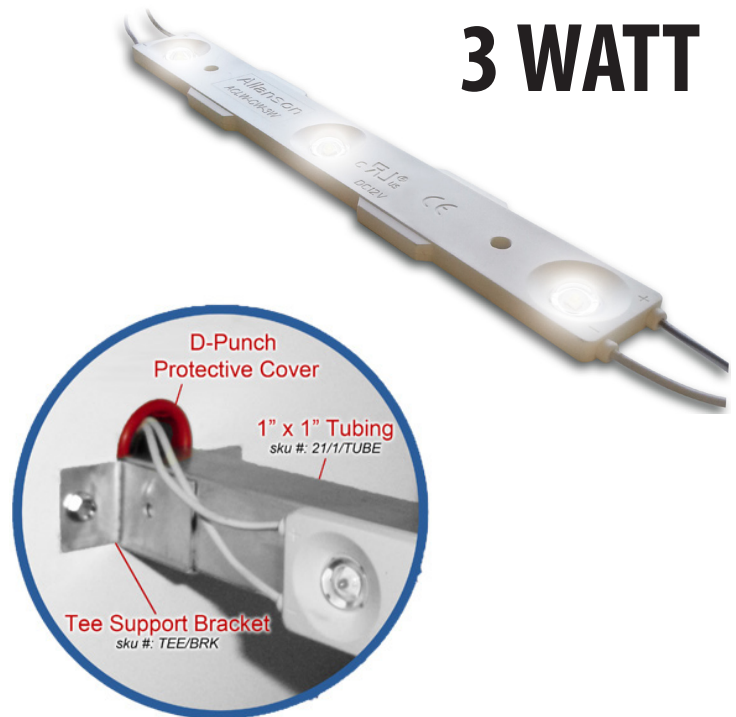
- **EXISTING RETRO** - Cut all secondary wire at each end of the existing ballast that feeds sockets on each end of sign.
- Cut Existing Primary (Black - White) that feeds ballast.
- Connect White (Neutral) wire to existing ballast wires on one side of the sign that feeds the sockets, then connect Black (Hot) wire to other side of the sign to ballast wires that feed the sockets.
- Optional to leave or remove old existing HO ballast.
- Install lamps and you're done!

**[CLICK HERE TO VIEW VIDEO DEMONSTRATION](#)**

## StormTight LED 3 Watt THE EASIEST & MOST PRACTICAL FLUORESCENT TO LED REPLACEMENT

- 3 x 1.3 watts emitters - 427 lumens
- 12 volts DC
- Wide 155 degree beam angle for even light distribution
- Sealed construction for reliable all weather operation
- Max. load 14 modules per 60 watt power supply
- Proven metal back construction for long reliable life
- Aluminum printed circuit board for long emitter life
- Color Temperature cool white 6300K
- Recommended for 6" to 10" sign depth

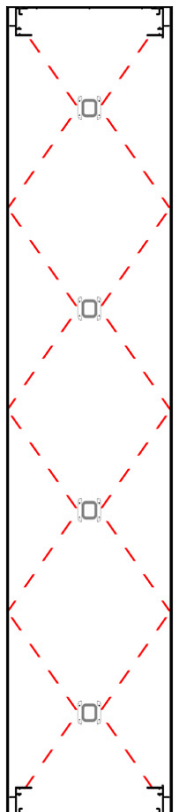
# 3 WATT



### 3 Watt Modules

**12" on center distance and 155 degree angle allows for uniform light distribution throughout the sign surface.**

D/F Side View



#### Depth Requirement

6" minimum single face/ 12" minimum double face

#### Simplicity

Allanson's powerful 3 watt Storm Tight #ACLW-CW-3W led module can be attached to both sides of 1"x1" square aluminum tube frame and spaced 12" on center for double face applications. 3 watt module can be attached directly to backer for single face applications.

#### Retro Double Face Sign

Remove existing high output lamps and sockets. Use existing D-punch holes to run new led wires. Remove lamps, and cut to size 1"x1" square aluminum tube frame and fasten in front of existing D-Punch hole using a Tee Support Bracket. Attach led's to both sides of 1"x1" square tubing. Snake wires thru existing raceways and make connection to power supply.

#### New Double Face Sign

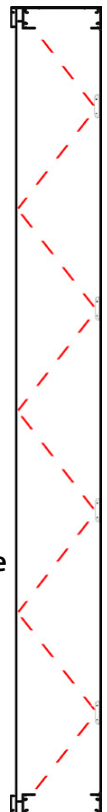
Instructions are the same as Retro, other than the fabricator must drill or punch a hole large enough for 2 wires to run into a new un-punched raceway.

#### Retro or New Double Face Sign

Space and attach the 3 watt Storm Tight LED's 12" on center to backer of sign.

Bushings are recommended to be used with holes in raceways to prevent wire chafing.

S/F Side View



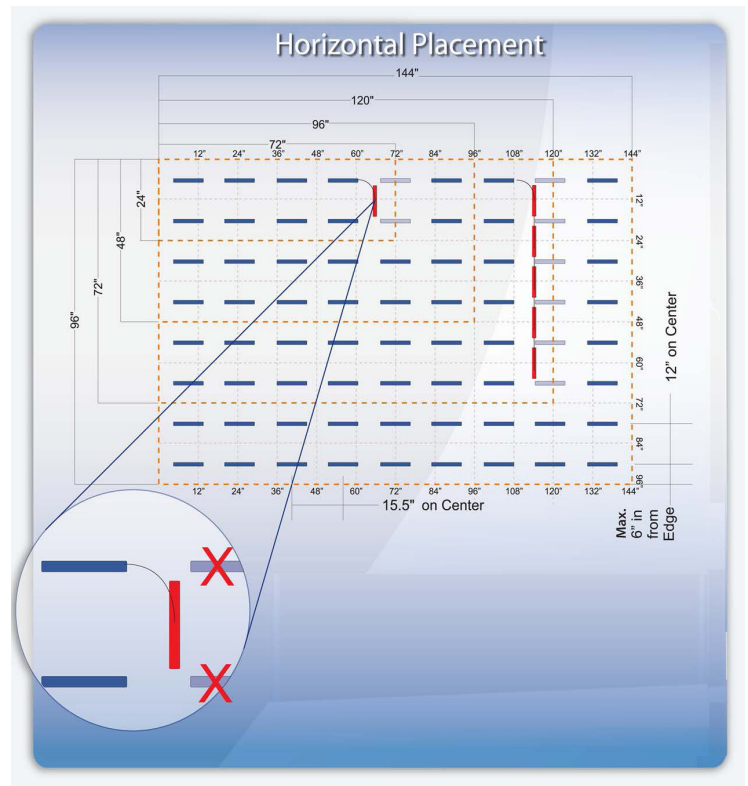
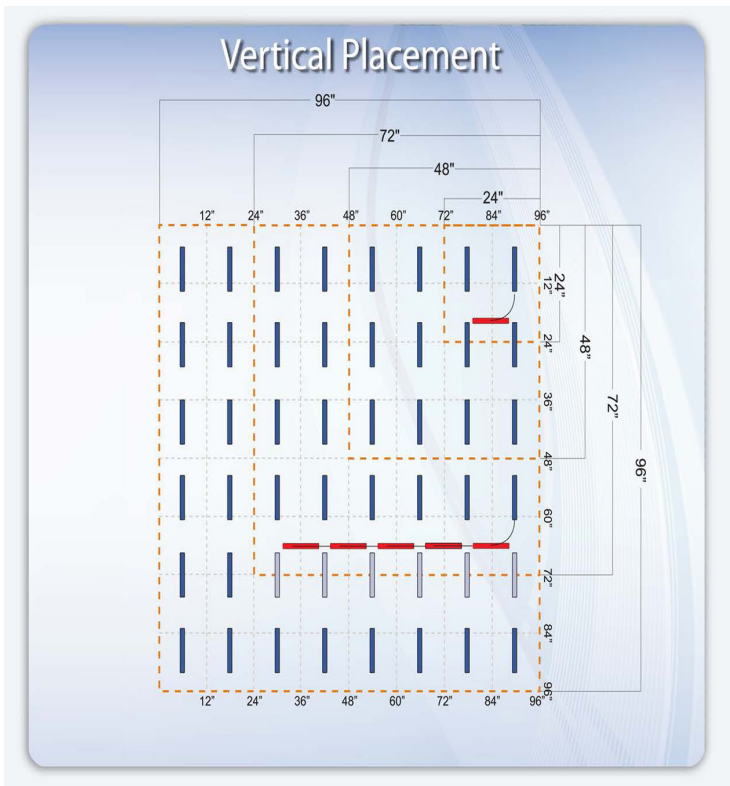
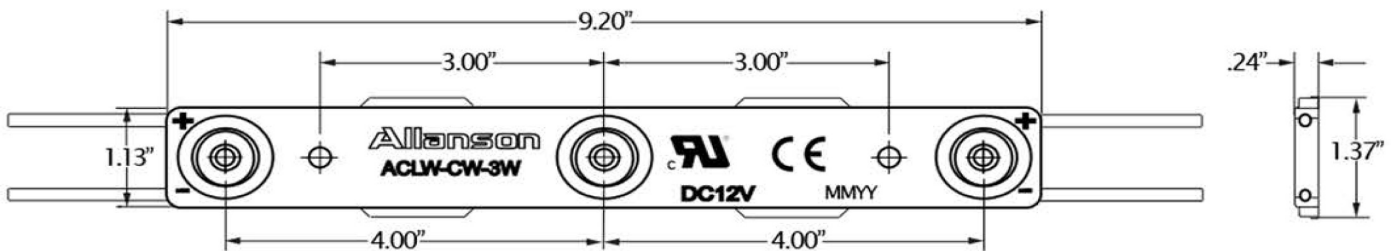


### SPECIFICATIONS

Part Number	LEDs per Module	Lumens per Module	Watts per Module	Lumens per Watt	Modules per Foot	Lumens per Foot	Supply Voltage	Power Capacity	Packaging
ACLW-CW-3W	3	427	3.8	112	0.75	320	DC 12 V	14 Modules per CV125-120 power supply	18 modules per box

Compatible Power Supplies	Part Number
	CV121 (12W)
	CV122-120 (24W)
	CV125-120 (60W)
CV12125 (2X60W)	

Module Per Power Supply	Power Supply	
	CV121	3
	CV122-120	6
	CV125-120	14
CV12125	28	



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- 3 x 1.3 watts emitters - 427 lumens
- 12 volts DC
- Wide 155 degree beam angle for even light distribution
- Sealed construction for reliable all weather operation
- Max. load 14 modules per 60 watt power supply
- Proven metal back construction for long reliable life
- Aluminum printed circuit board for long emitter life
- Color Temperature cool white 6300K
- Recommended for 6" to 10" sign depth

**3WT FOR LARGE CHANNEL LETTERS**



**AND LAMP REPLACEMENT**

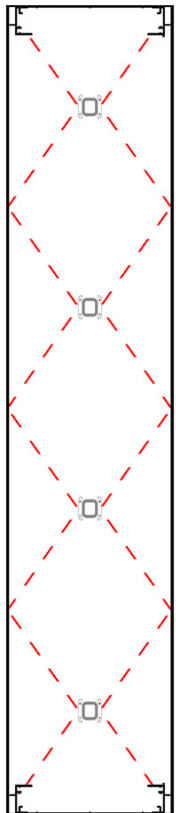
**3 WATT**



### 3 Watt Modules

**12" on center distance and 155 degree angle allows for uniform light distribution throughout the sign surface.**

**D/F Side View**



**Depth Requirement**

6" minimum single face/ 12" minimum double face

**Simplicity**

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**Retro Double Face Sign**

Remove existing high output lamps and sockets. Use existing D-punch holes to run new led wires. Remove lamps, and cut to size 1"x1" square aluminum tube frame and fasten in front of existing D-Punch hole using a Tee Support Bracket. Attach led's to both sides of 1"x1" square tubing. Snake wires thru existing raceways and make connection to power supply.

**New Double Face Sign**

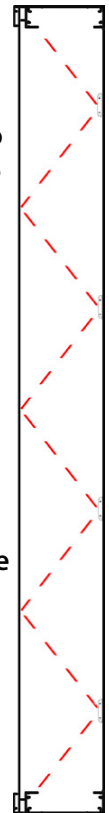
Instructions are the same as Retro, other than the fabricator must drill or punch a hole large enough for 2 wires to run into a new un-punched raceway.

**Retro or New Double Face Sign**

Space and attach the 3 watt Storm Tight LED's 12" on center to backer of sign.

Bushings are recommended to be used with holes in raceways to prevent wire chafing.

**S/F Side View**



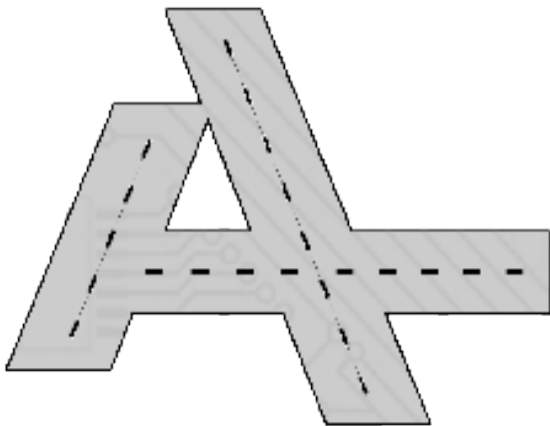


- 160° Beam angle for shallow lighting
- Balanced and uniform illumination
- Fast and easy installation
- Excellent module efficacy
- Fewer Modules required for lower installation cost
- Consistent color
- Product can be used in dry/damp and wet locations (not suitable for submersed applications) IP67
- Available in 0.5W and 1W in White
- 2 modules per foot
- UL recognized
- RoHs compliant



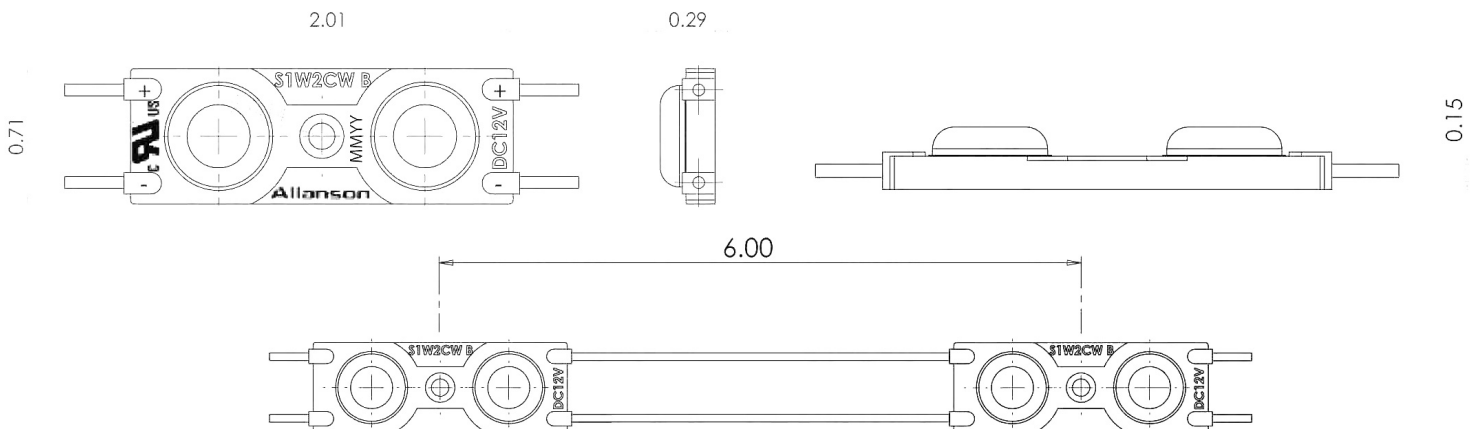
**AVAILABLE  
IN  
0.5 WATT & 1 WATT**

### Modules Population Recommendation\*



Recommended Depth (2 Modules/Foot)	Stroke Spacing Range
4 inches	6 - 7 inches
5 inches	8 - 10 inches
6 inches	10 - 12 inches
8 inches	12 - 14 inches

\*Results may vary based on sign face material, graphics, and desired brightness.



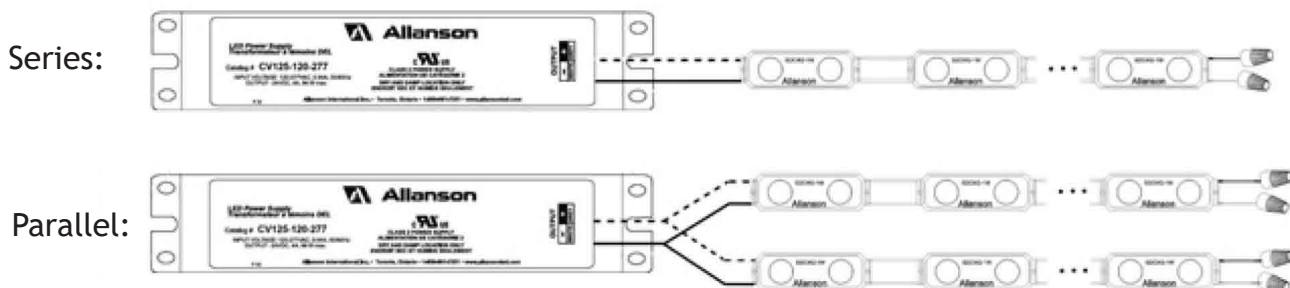
## Specifications Chart

	Part Number	
	S05W2CWII-160D	S1W2CWII-160D
Color Temperature	6500K	6500K
LED/MOD	2	2
MOD/FT	2	2
Lumens/Mod	54	104
Lumens/Ft	108	208
Lumens/Watt	102	95
Beam Angle	160	160
Power Consumption (watt)	0.5 W	1.1 W
Input Voltage	DC 12V	DC 12V
Operating Temperature	-30° C to +60° C	-30° C to +60° C
IP Level	67	67
<b>Packaging</b>		
Anti-Static Bag	50 Modules	50 Modules
Carton	600 Modules	600 Modules
Master Carton	1200 Modules	1200 Modules
Warranty	5 Years	5 Years

## Power Supply Loading Information

Part Number	Wattage	Number of Modules		Number of Feet	
		S05W2CWII-160D	S1W2CWII-160D	S05W2CWII-160D	S1W2CWII-160D
CV122-120-277	24	43	20	21.5	10
CV125-120	60	108	50	54	25
CV125-120-277	60	108	50	54	25
CV12125-MV	2X60	216	100	108	50
CVW125-MV	60	108	50	54	25

Modules can be connected in series or parallel. To achieve best results in a series, connect maximum **25 1W (S1W2CWII)** modules and maximum **50 .05W (S05W2CWII)** modules. For additional modules, connect in parallel.



## Low Profile LED Module THE EASIEST & MOST PRACTICAL FLUORESCENT TO LED REPLACEMENT

Allanson's new low profile LED module, designed with optimal batwing lens for 1.5 - 4" shallow signs, provides brighter and even illumination that can allow you to install **2 modules per foot**, reducing your installation time and cost!



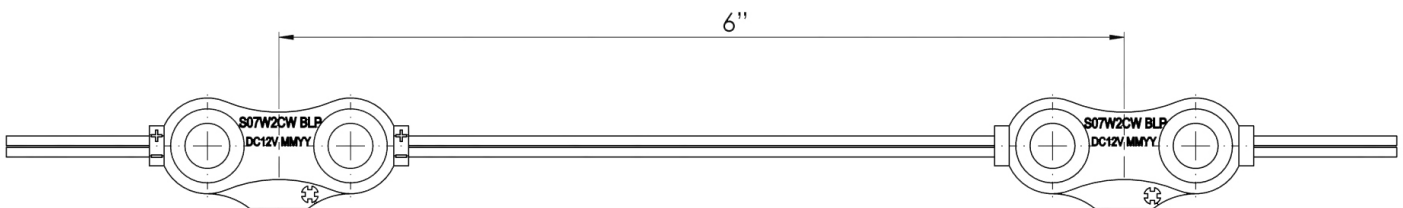
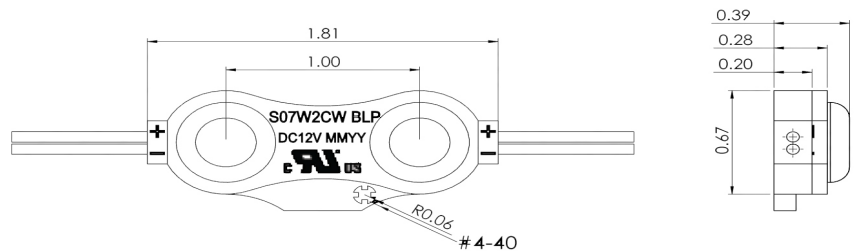
# .73 WATT

### Specifications Chart

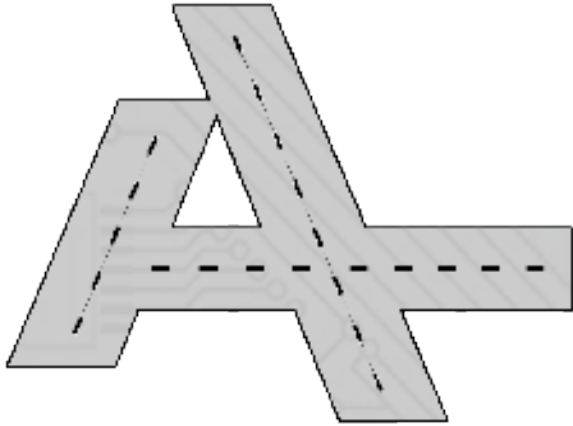
Part Number	S07W2CWBLP170D
Color Temperature	6500K
LED/Mod	2
Mod/Ft	2
Lumens/Mod	70
Lumens/Ft	140
Lumens/Watt	96.1
Beam Angle	170
Power Consumption (watt)	0.73W
Input Voltage	DC 12V
Operating Temperature	-30° C to +60° C
IP Level	67
<b>Packaging</b>	
Anti-Static Bag	72 Modules
Carton	864 Modules
Master Carton	1728 Modules
Warranty	5 Years

### Power Supply Loading Information

Part Number	Wattage	Number of Modules	Number of Feet
		S07W2CWBLP170D	S07W2CWBLP170D
CV122-120-277	24	28	14
CV125-120	60	72	36
CV125-120-277	60	72	36
CV12125-MV	2x60	72 + 72	72
CVW125-MV	60	72	36



## Modules Population Recommendation\*



Recommended Depth (2 Modules/Foot)	Stroke Spacing Range
1.5 inches*	3 inches
2 inches**	4 inches
2.5 inches	5 inches
3 inches	6 inches
4 inches	8 inches

\*Results may vary based on sign face material, graphics, and desired brightness.

\* 4 modules/foot      \*\*2.5 modules/foot

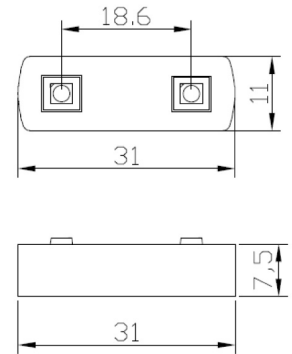
## JS LED MINI

HIGHEST LIGHT OUTPUT MINI ON THE MARKET!

- 3 Modules per Foot - 3/8" x 1-1/4" Modules
- Electrical characteristics: TA=25°C
- 12 VDC Super bright LED
- Easy and flexible installation. Ideal for home and business lighting decoration
- High brightness, wide angle LED chip
- Low power consumption
- 5 Year Warranty



# .28 WATT



### Selection Guide

Part Number	Emoted Color	Lens Type	Iv (lm) @ 35mA		Viewing Angle 2 θ 1/2
			Min.	Type	
JE-001R-MN	Red	Water Clear	7	8	120° ± 5
JE-004W-MN	White	Yellow Diffused	16	17	120° ± 5
JE-003B-MN	Blue	Water Clear	2.5	3	120° ± 5
JE-002G-MN	Green	Water Clear	8	9	120° ± 5

### Electrical/Optical Characteristics at T<sub>A</sub> = 25°C

Part Number	JE-001R-MN			JE-004W-MN			JE-003B-MN			JE-002G-MN		
	Type	Max	Units	Type	Max	Units	Type	Max	Units	Type	Max	Units
Dominant Wavelength	620	626	nm	n/a	n/a	n/a	465	470	nm	520	522.5	nm
Forward Voltage	12	12.2	V	12	12.2	V	12	12.2	V	12	12.2	V
Forward Current	33	35	mA	33	35	mA	33	35	mA	33	35	mA
Power Consumption	396	427	mW	396	427	mW	396	427	mW	396	427	mW
Operating Temperature	-40°C - +85°C			-40°C - +85°C			-40°C - +85°C			-40°C - +85°C		

### JS LED POWER SUPPLY LOADING

DESCRIPTION	ITEM NUMBER	20 WATT TOTAL MODULES	40 WATT TOTAL MODULES	60 WATT TOTAL MODULES	WATTS PER MODULES
Mini Red	JE-001R-MN	40/13ft	80/70ft	120/40ft	.38
Mini White	JE-004W-MN	40/13ft	80/70ft	120/40ft	.38
Mini Blue	JE-003B-MN	40/13ft	80/70ft	120/40ft	.38
Mini Green	JE-002G-MN	40/13ft	80/70ft	120/40ft	.38

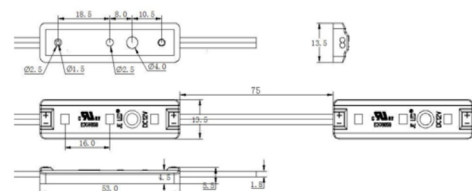
## JS LED® STANDARD

THE PERFECT LED FOR USE IN WIDE AND NARROW STROKE LETTERS

- 3 Modules per Foot - 3/8" x 1-1/4" Modules
- Electrical characteristics: TA=25°C
- 12 VDC Super bright LED
- Easy and flexible installation. Ideal for home and business lighting decoration
- High brightness, wide angle LED chip
- Low power consumption
- 3 Year Limited Warranty



**.36 WATT**



## Specifications

Part Number	JE-001R-24	JE-002G-11	JE-003B-11	JE-004CW-05L
Color	Red	Green	Blue	Cool White
LED Size	2835	3528	3528	2735
Protection	IP68	IP65	IP65	IP68
Viewing Angle	120° ± 5	120° ± 5	120° ± 5	120° ± 5
Forward Voltage	12V	12V	12V	12V
Forward Current	60mA	30mA	30mA	30mA
Wavelength	623nm	523nm	523nm	9000K
Luminous Flux	16LM	17LM	17LM	33LM
Power Consumption	0.36W	0.36W	0.36W	0.36W
Operating Temperature	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C

## JS LED POWER SUPPLY LOADING

DESCRIPTION	ITEM NUMBER	20 WATT TOTAL MODULES	40 WATT TOTAL MODULES	60 WATT TOTAL MODULES	WATTS PER MODULES
Standard Red	JE-001R-24	38/15ft	75/30ft	115/46ft	.42
Standard Cool White	JE-004CW-05L	38/15ft	75/30ft	115/46ft	.42
Standard Green	JE-002G-11	38/15ft	75/30ft	115/46ft	.42
Standard Blue	JE-003B-11	38/15ft	75/30ft	115/46ft	.42

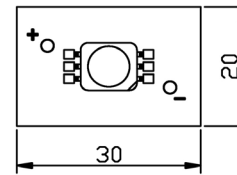


## JS LED SUPER

- Aluminum Package to Dissipate Heat
- Electrical characteristics: TA=25°C
- 12 VDC Super bright LED
- Easy and flexible installation. Ideal for home and business lighting decoration
- High brightness, wide angle LED chip
- Low power consumption
- 3 Year Warranty



**.73 WATT**



**CLEARANCE SALE**

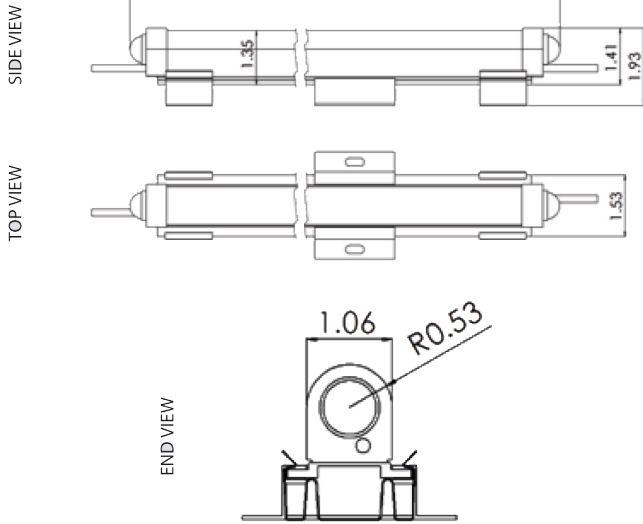
## Selection Guide

Part Number	JE-003B-15/SING				JE-004W-15			
Parameter	Min.	Type	Max	Units	Min.	Type	Max	Units
Forward Voltage	11.8	12	12.2	V	11.8	12	12.2	V
Standing Current	75	78	80	mA	75	78	80	mA
Power Consumption	885	936	976	mW	885	936	976	mW
Iv (lm) @78mA	4	6	/	lm	50	54	/	lm
Viewing Angle 2 θ 1/2	120°							
Operating Temperature	-25°C - +65°C							
Color Temperature	n/a				7000-8000K			

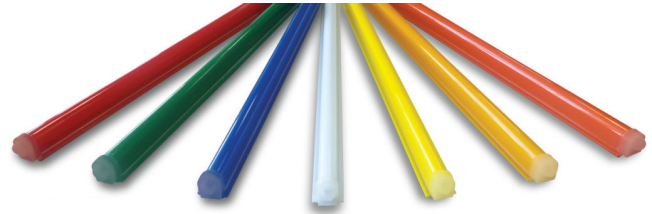
## JS LED POWER SUPPLY LOADING

DESCRIPTION	ITEM NUMBER	20 WATT TOTAL MODULES	40 WATT TOTAL MODULES	60 WATT TOTAL MODULES	WATTS PER MODULES
Super White	JE-004W-15	16/6ft	32/13ft	48/19ft	1
Super Blue	JE-003B-15	16/6ft	32/13ft	48/19ft	1

## Skyline Rigid Border Tubing



Installation hardware included but not attached.



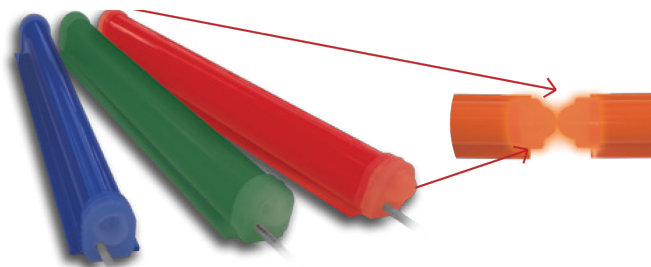
**Call for pricing**

### Standard Colors:

- Red
- Yellow
- Lemon Yellow
- Orange
- Cool White
- Blue
- Green

Allanson's LED SkyLine Rigid Border Tubing provides top of the line LED systems that complement and enhance the appearance of your building. With superior accent lighting, the sky's the limit!

- Seven standard colors (custom colors upon request\*)
- RGB SkyLine also available for color changing effects
- Balanced even illumination - no dead spots
- Non-bendable, UV resistant polycarbonate housing
- Sturdy stainless steel snap clip and aluminum slide attachments for easy mounting
- Dimmable (LED Dimmer ACL-12/24V-DMR)
- Standard and custom lengths available
- Field Cutting Kit (#ARBT-CUTKIT) only available for seven standard colors to assist with on site adjustments
- Clean connection - wires are securely & effectively retained behind tubing
- UL & CUL listed outdoor & indoor wet, damp, & dry location
- Operating temperature: -40°C to 70°C
- White is 6000K, 122 Lumens per foot
- Uses Allanson CVW243-MV (waterproof) or CV244-120-277 Power Supplies
- 24 VDC System
- IP 67 rated
- 5 year standard warranty



**End caps allow for thermal expansion and contraction, and provide uniform illumination from end to end for a clean and sleek look.**

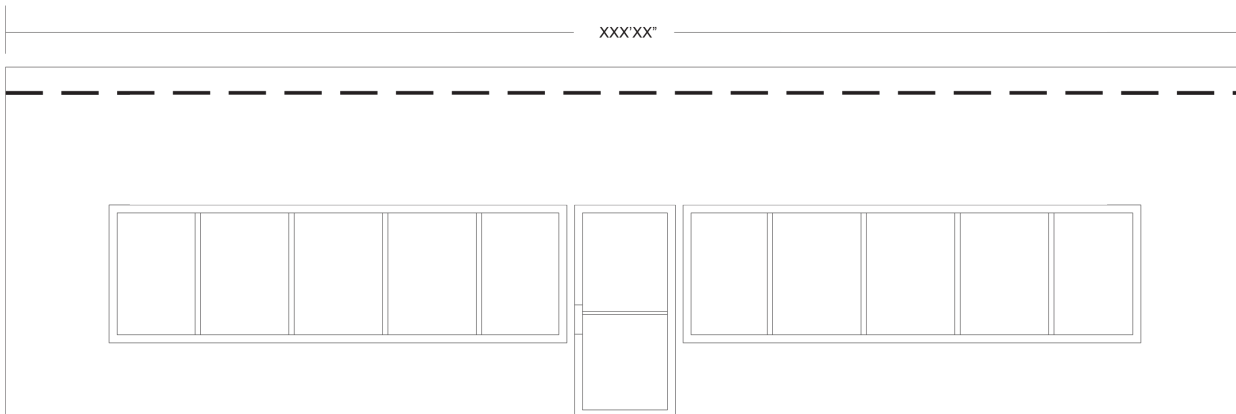
## STANDARD PREMADE LENGTHS

Part number	Total Length (inch) (Outside Diameter)	Imperial Fraction	Watt	Amps
ARBT-4XX	4.525	4 <sup>1</sup> / <sub>2</sub>	0.48	0.02
ARBT-7XX	6.925	6 <sup>15</sup> / <sub>16</sub>	0.95	0.04
ARBT-9XX	9.325	9 <sup>5</sup> / <sub>16</sub>	1.43	0.06
ARBT-11XX	11.725	11 <sup>3</sup> / <sub>4</sub>	1.90	0.08
ARBT-14XX	14.125	14 <sup>1</sup> / <sub>8</sub>	2.38	0.10
ARBT-16XX	16.525	16 <sup>1</sup> / <sub>2</sub>	2.86	0.12
ARBT-19XX	18.925	18 <sup>15</sup> / <sub>16</sub>	3.33	0.14
ARBT-21XX	21.325	21 <sup>5</sup> / <sub>16</sub>	3.81	0.16
ARBT-23XX	23.725	23 <sup>3</sup> / <sub>4</sub>	4.28	0.18
ARBT-26XX	26.125	26 <sup>1</sup> / <sub>8</sub>	4.76	0.20
ARBT-28XX	28.525	28 <sup>1</sup> / <sub>2</sub>	5.24	0.22
ARBT-31XX	30.925	30 <sup>15</sup> / <sub>16</sub>	5.71	0.24
ARBT-33XX	33.325	33 <sup>5</sup> / <sub>16</sub>	6.19	0.26
ARBT-35XX	35.725	35 <sup>3</sup> / <sub>4</sub>	6.66	0.28
ARBT-38XX	38.125	38 <sup>1</sup> / <sub>8</sub>	7.14	0.30
ARBT-40XX	40.525	40 <sup>1</sup> / <sub>2</sub>	7.62	0.32
ARBT-43XX	42.925	42 <sup>15</sup> / <sub>16</sub>	8.09	0.34
ARBT-45XX	45.325	45 <sup>5</sup> / <sub>16</sub>	8.57	0.36
ARBT-47XX	47.725	47 <sup>3</sup> / <sub>4</sub>	9.04	0.38
ARBT-50XX	50.125	50 <sup>1</sup> / <sub>8</sub>	9.52	0.40
ARBT-52XX	52.525	52 <sup>1</sup> / <sub>2</sub>	10.00	0.42
ARBT-55XX	54.925	54 <sup>15</sup> / <sub>16</sub>	10.47	0.44
ARBT-57XX	57.325	57 <sup>5</sup> / <sub>16</sub>	10.95	0.46
ARBT-59XX	59.725	59 <sup>3</sup> / <sub>4</sub>	11.42	0.48
ARBT-62XX	62.125	62 <sup>1</sup> / <sub>8</sub>	11.90	0.50
ARBT-64XX	64.525	64 <sup>1</sup> / <sub>2</sub>	12.38	0.52
ARBT-67XX	66.925	66 <sup>15</sup> / <sub>16</sub>	12.85	0.54
ARBT-69XX	69.325	69 <sup>5</sup> / <sub>16</sub>	13.33	0.56
ARBT-71XX	71.725	71 <sup>3</sup> / <sub>4</sub>	13.80	0.58
ARBT-74XX	74.125	74 <sup>1</sup> / <sub>8</sub>	14.28	0.60
ARBT-76XX	76.525	76 <sup>1</sup> / <sub>2</sub>	14.76	0.62
ARBT-79XX	78.925	78 <sup>15</sup> / <sub>16</sub>	15.23	0.64
ARBT-81XX	81.325	81 <sup>5</sup> / <sub>16</sub>	15.71	0.66
ARBT-83XX	83.725	83 <sup>3</sup> / <sub>4</sub>	16.18	0.68
ARBT-86XX	86.125	86 <sup>1</sup> / <sub>8</sub>	16.66	0.70
ARBT-88XX	88.525	88 <sup>1</sup> / <sub>2</sub>	17.14	0.72
ARBT-91XX	90.925	90 <sup>15</sup> / <sub>16</sub>	17.61	0.73
ARBT-93XX	93.325	93 <sup>5</sup> / <sub>16</sub>	18.09	0.75
ARBT-95XX	95.725	95 <sup>3</sup> / <sub>4</sub>	18.56	0.77
ARBT-98XX	98.20	98 <sup>3</sup> / <sub>16</sub>	19.04	0.79

• XX in part number denotes color (RD, YL, MY, OR, CW, BL and GR).

## Project Planning and Preparation(s)

What you will need for parts and pieces...

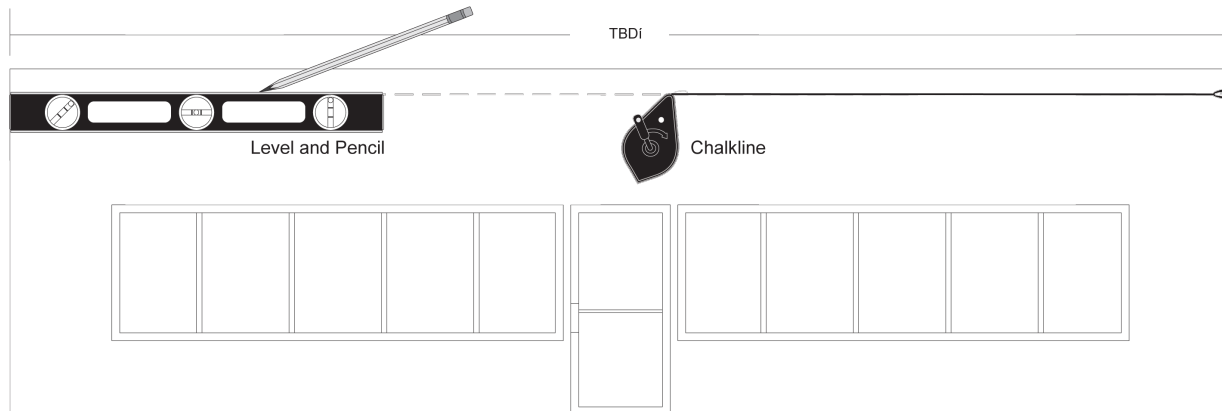


**Step One:** Take a lineal measurement of the overall length of the portion of the building where you plan to instal the border tube(s).

**Step Two:** Divide the overall length by the best stock sized tube(s) to achieve the most esthetically appealing installation. For example if this building was 41' long the optimal sized tube would be ARBT-98-CW meaning that the tube is 98" long and Cool White in color. Based on that you would specify (5) of this unit P/N to complete the project with the least amount of seams.

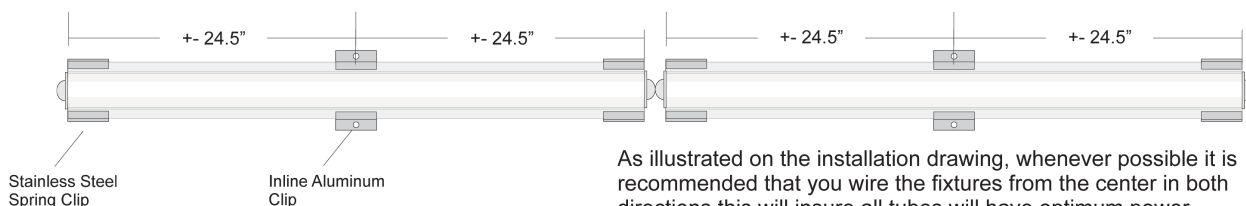
## Project Planning laying out the installation:

Where you will apply the border tubes and proven methods for layout.....



**Step Three:** using a Level or a Chalk line make a line across the entire length of the installation This will ensure that each tube applied will stay on the same level plane.

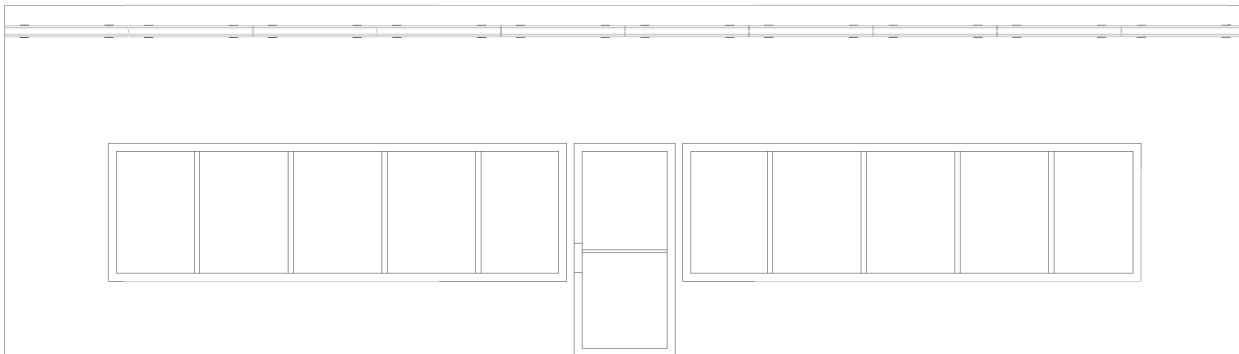
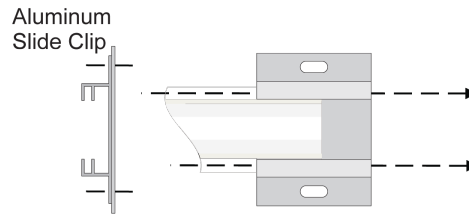
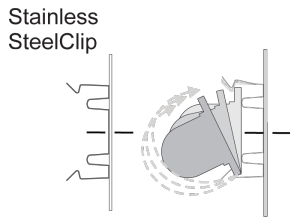
**Step Four:** after you have determined how may mounting clips you will need, install them spaced according to the length of the specified tube(s), spacing them + or - 24.5" on center. for pieces less than 26" long you will install the fixture using one spring clip on each end.



As illustrated on the installation drawing, whenever possible it is recommended that you wire the fixtures from the center in both directions this will insure all tubes will have optimum power.

## Project installation and wiring:

Note: all electrical connections must be completed by qualified person(s) and in accordance to local electrical codes.....



**Step Five:** Install the border tubes beginning at an end while making sure not to compress the soft end caps leaving a minimum of 1/4" between each fixture, thus allowing for normal expansion and contraction.

**Step Six:** Make all electrical connections based on the manufacturers' recommendations and test lighting. Finish all connections and apply primary power and verify all tubes are lighting.

## Tools Needed and Caution for Installation



Level



Tape Measure



Chalk Line



Drill / Hammer Drill



Linemen's Pliers



Philips /Robertson Head Screw Driver



Do not cut this product without using the **Field Cut Kit** and without referencing the Field Cut Kit Instructions.

**Do Not Drill** through the mounting flange or any part of the fixture for any reason it will **Void Warranty**

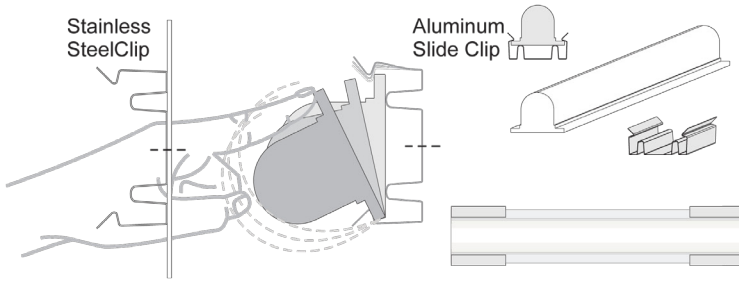


**Handle with care.** **Do Not Force**, striking this product will **Void Warranty**



## Installation and Mounting Hardware Spring Clip

— Based on the different installation conditions the fastener will be determined and provided by the installer.

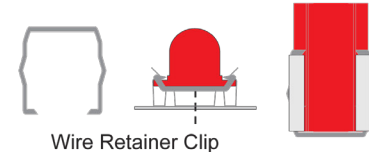


### Stainless Steel Snap Clip

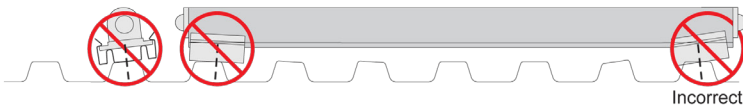
The stainless steel spring snap clip needs to be installed at each end of each border tube fixture. They should be installed flush to the end of every fixture and be used to secure the fixture.

\*Once the tubes are in place using your thumb and index finger pinch the stainless snap clip tabs together ensuring that they are tight and secure.

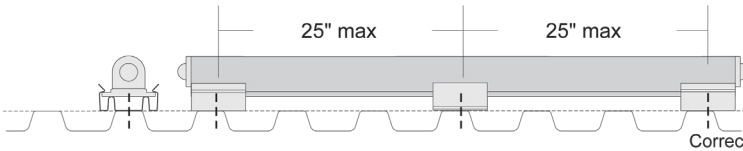
In cases where you are mounting the tubes in a vertical position you will need to employ a retainer clip seen below. The Wire Retainer Clip has points that wrap around the end(s) of the tube holding it from sliding up or down.



Wire Retainer Clip



Incorrect



Correct

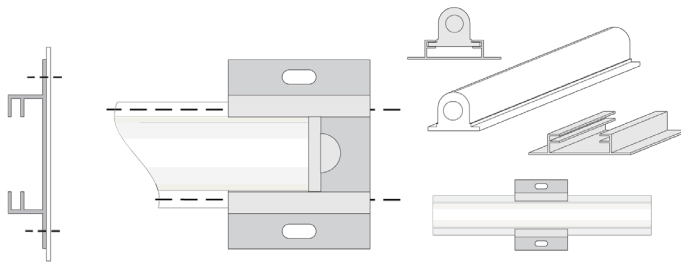


Do not use pliers see note\*

Mandatory: maintain straight plane

The position of the Stainless Steel Snap and Aluminum Slide clips are vital to a successful installation both from a mechanical and esthetic view. There should not be any section of the installation that measures longer than 25" without an Aluminum Slide clip in place as directed.

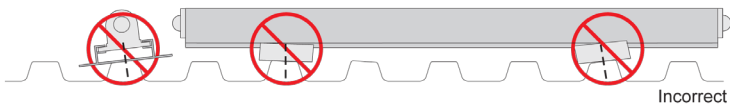
## Installation and Mounting Hardware In-line Brackets



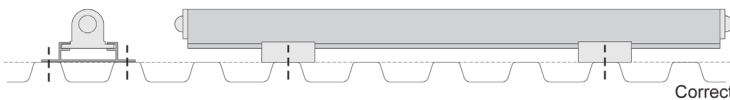
### Aluminum Slide Clip

Will need to be placed in line on or about 25" on center along with one Snap clip on each end.

See Illustration at left: When marking off and laying out your Slide Brackets pay close attention to the angle of the surface making sure that they are same across the length of the project. Failing to do so can cause the Slide Clips to apply uneven pressure in the mounting flange possibly leading to cracking of the housing and eventual failure of the border tube.



Incorrect



Correct

The best way to determine where to apply the clips is to use a long level straight edge across the face of the building and mark the points where all Clips will be on the same level plane.

Note: there may be times where you may have to shim some of the Clips along the way to maintain the same plane.

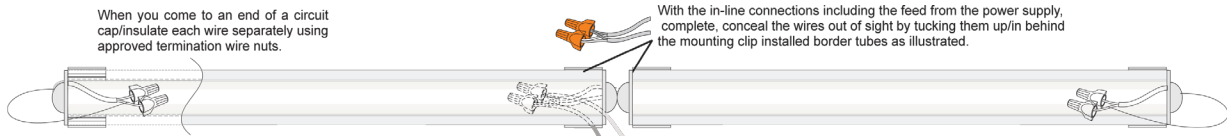
Mandatory: maintain straight plane

Note: as little as five degrees off will alter the tube enough to noticeably distort the overall line.

# Mounting Hardware

PART #	Stainless Steel Snap Clip	Aluminum Slide Clip	Wire Retainer Clip
ARBT-04	2	0	1
ARBT-07	2	0	1
ARBT-09	2	0	1
ARBT-11	2	0	1
ARBT-14	2	0	1
ARBT-16	2	0	1
ARBT-19	2	0	1
ARBT-21	2	0	1
ARBT-23	2	1	1
ARBT-26	2	1	1
ARBT-28	2	1	1
ARBT-31	2	1	1
ARBT-33	2	1	1
ARBT-35	2	1	1
ARBT-38	2	1	1
ARBT-40	2	1	1
ARBT-43	2	1	1
ARBT-45	2	1	1
ARBT-47	2	1	1
ARBT-50	2	1	1
ARBT-52	2	1	1
ARBT-55	2	2	1
ARBT-57	2	2	1
ARBT-59	2	2	1
ARBT-62	2	2	1
ARBT-64	2	2	1
ARBT-67	2	2	1
ARBT-69	2	2	1
ARBT-71	2	2	1
ARBT-74	2	2	1
ARBT-76	2	2	1
ARBT-79	2	3	1
ARBT-81	2	3	1
ARBT-83	2	3	1
ARBT-86	2	3	1
ARBT-88	2	3	1
ARBT-91	2	3	1
ARBT-93	2	3	1
ARBT-95	2	3	1
ARBT-98	2	3	1

## Installation and Secondary Fixture Wiring



When you come to an end of a circuit cap/insulate each wire separately using approved termination wire nuts.

With the in-line connections including the feed from the power supply, complete, conceal the wires out of sight by tucking them up/in behind the mounting clip installed border tubes as illustrated.

**Note:** In an effort to insure that all tubes will see “as close to” similar line voltage from the power supply(s) it is highly recommended that you attach the feed from the power supply at or as near to the center of the associated fixtures as possible.

Each tube by virtue of design will slightly reduce the “pass thru” voltage, therefore when you apply the “center tap” you are insuring more even power across the project.

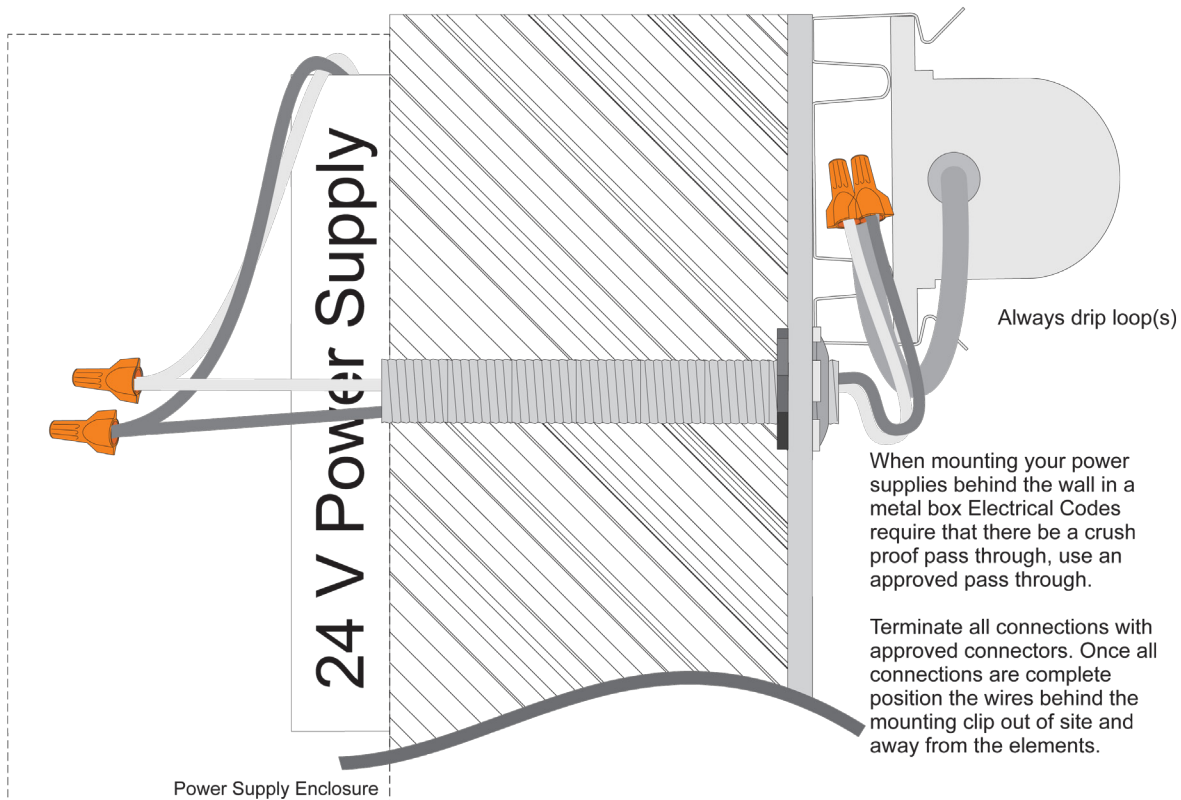
Once all hardware and fixtures have been installed take some time to inspect the project including but not limited to:

- Inspect all hardware and mounting brackets for fit and visual finish.
- See that all wire connection(s) are tight and secured as well as tucked away out of sight behind the mounting hardware.
- Seal all penetrations made in the wall surface from water ingress.

(2) Orange wire nuts included w/each B-Tube Fixture



## Remote Power Supply Installation with Metal Enclosure



Always drip loop(s)

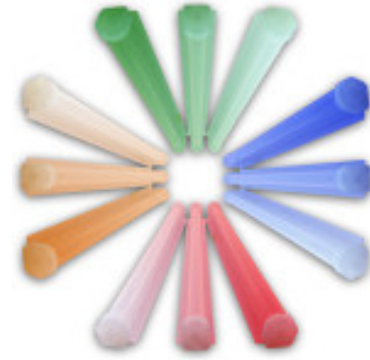
When mounting your power supplies behind the wall in a metal box Electrical Codes require that there be a crush proof pass through, use an approved pass through.

Terminate all connections with approved connectors. Once all connections are complete position the wires behind the mounting clip out of site and away from the elements.



## RGB Skyline Rigid Border Tubing

- Amazing color changing effects
- Customized sizing, programming, and color locking option
- Balanced even illumination
- Non-bendable, UV resistant polycarbonate housing
- Sturdy stainless steel snap clip and aluminum slide attachments for easy mounting
- Clean connection - wires are securely and effectively retained behind tubing
- UL and CUL listed outdoor and indoor wet, damp, and dry location
- Operating temperature: -40°C to +70°C
- 24 VDC System and IP 67 rated
- Easy to use RGB DMX Controllers
- Time delayed program capability
- 5 year standard warranty



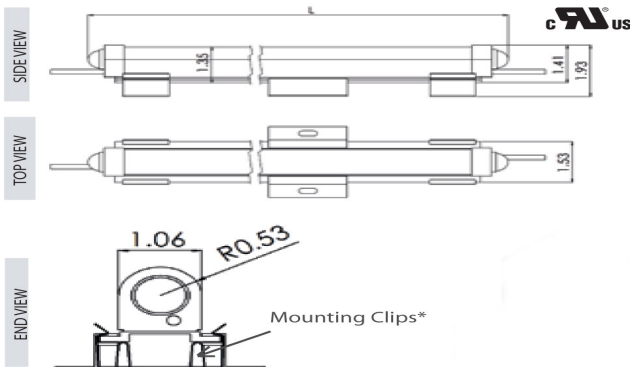
**Call for sizes and pricing**

## Specifications

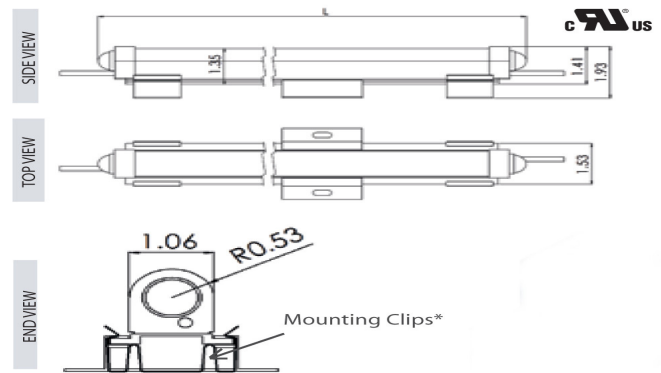
Part Number	ARBT-XXRGB
Part Number (Color Locking Option)	ARBT-XXRGB LC
LED Channels	Red, Green, Blue
Input Voltage	DV 24V
Power Consumption	7 Watt/Ft
Operating Temperature	-40°C - +70°C
Environmental Rating	IP 67
Warranty	5 Years
<b>Packaging</b>	
Single Unit (Various Size)	Tubing
Bulk Packaging	20 tubes in a box

## Loading Recommendation

<b>CV244-120-277 (96 Watt)</b>	12 ft
<b>CVW243-MV (80 Watt)</b>	9 ft



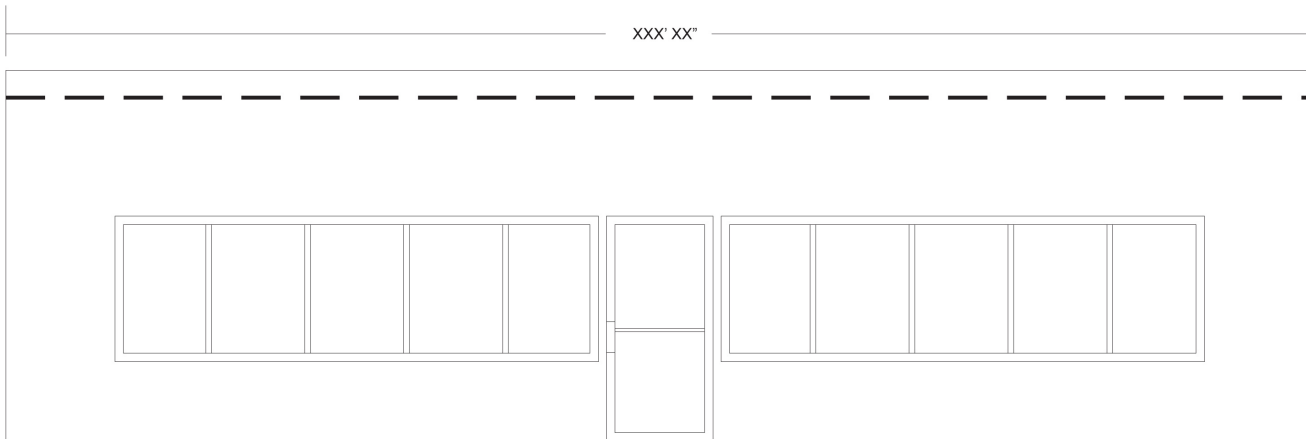
\*Installation hardware included but not attached.



\*Installation hardware included but not attached.

## Project Planning and Preparation(s)

What you will need for parts and pieces...

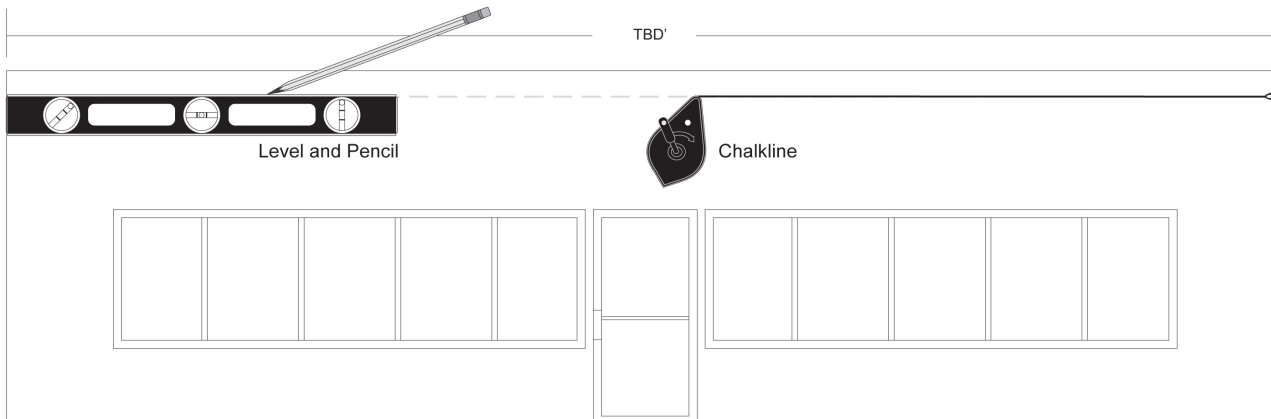


**Step One:** Take a lineal measurement of the overall length of the portion of the building where you plan to instal the border tube(s).

**Step Two:** Divide the overall length by the best stock sized tube(s) to achieve the most esthetically appealing installation. For example if this building was 37' long the optimal sized tube would be ARBT-74-RGB meaning that the tube is 74" long and White when not lit. Based on that you would specify (6) of this unit P/N to complete the project with the least amount of seams.

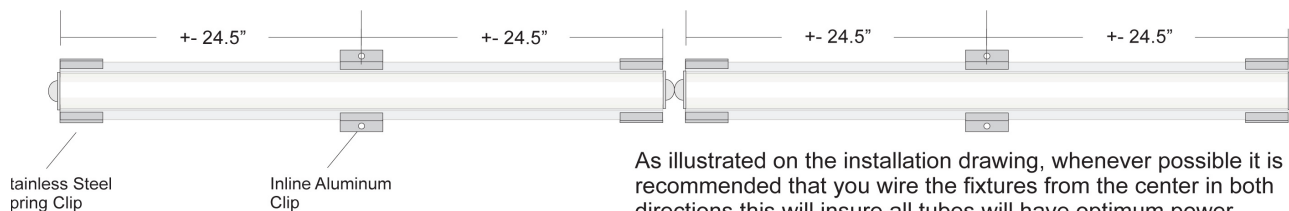
## Project Planning laying out the installation:

Where you will apply the border tubes and proven methods for layout.....



**Step Three:** using a Level or a Chalk line make a line across the entire length of the installation This will ensure that each tube applied will stay on the same level plane.

**Step Four:** after you have determined how may mounting clips you will need, install them spaced according to the length of the specified tube(s), spacing them + or - 24.5" on center. for pieces less than 26" long you will install the fixture using one spring clip on each end.

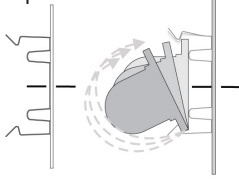


As illustrated on the installation drawing, whenever possible it is recommended that you wire the fixtures from the center in both directions this will insure all tubes will have optimum power.

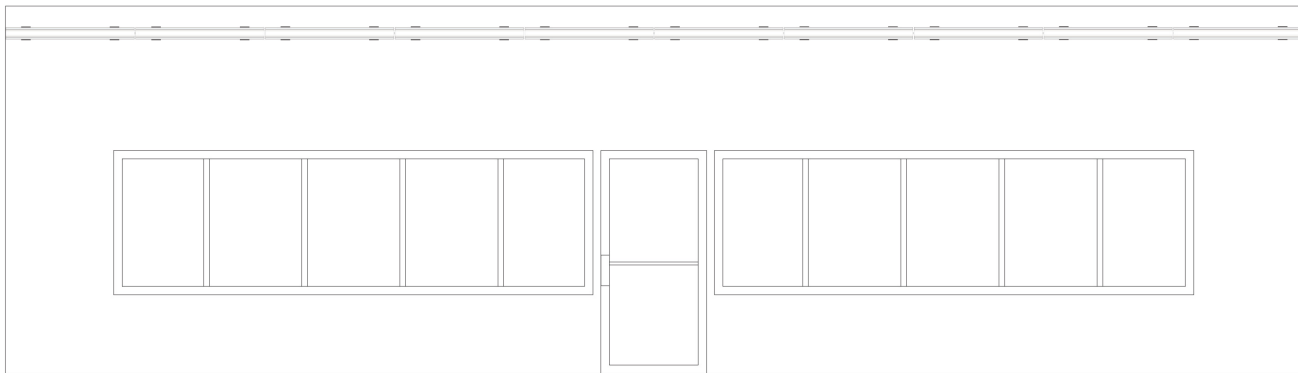
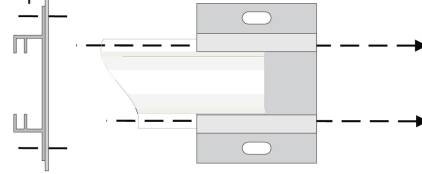
## Project installation and wiring:

Note: all electrical connections must be completed by qualified person(s) and in accordance to local electrical codes.....

Stainless Steel Clip



Aluminum Slide Clip



**Step Five:** Install the border tubes beginning at an end while making sure not to compress the soft end caps leaving a minimum of 1/4" between each fixture, thus allowing for normal expansion and contraction.

**Step Six:** Make all electrical connections based on the manufacturers' recommendations and test lighting. Finish all connections and apply primary power and verify all tubes are lighting.

### Tools Needed and Caution for Installation



Level



Tape Measure



Chalk Line



This product **cannot be field cut**. Custom lengths are provided by the factory, cutting will **Void Warranty**.



Drill / Hammer Drill

**Do Not Drill** through the mounting flange or any part of the fixture for any reason it will **Void Warranty**



Linemen's Pliers



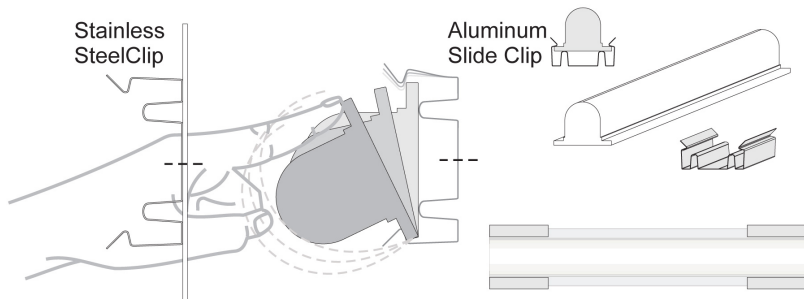
Philips /Robertson Head Screw Driver



**Handle with care.** **Do Not Force**, striking this product will **Void Warranty**

## Installation and Mounting Hardware Spring Clip

— Based on the different installation conditions the fastener will be determined and provided by the installer.

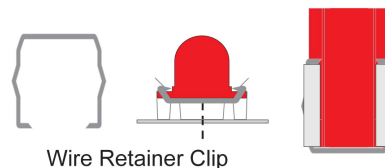


### Stainless Steel Snap Clip

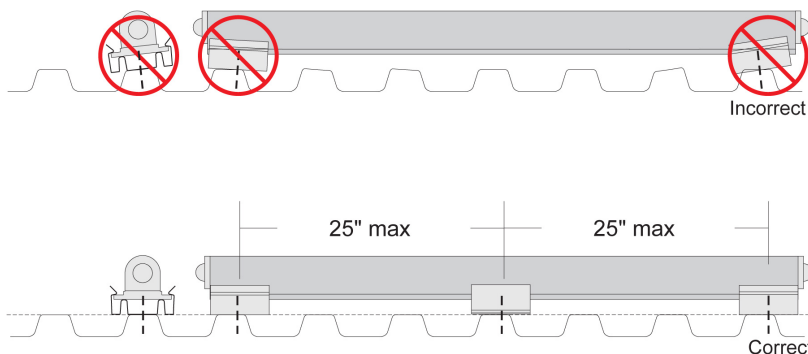
The stainless steel spring snap clip needs to be installed at each end of each border tube fixture. They should be installed flush to the end of every fixture and be used to secure the fixture.

\*Once the tubes are in place using your thumb and index finger pinch the stainless snap clip tabs together ensuring that they are tight and secure.

In cases where you are mounting the tubes in a vertical position you will need to employ a wire clip seen below. The Wire Retainer Clip has points that wrap around the end(s) of the tube holding it from sliding up or down.

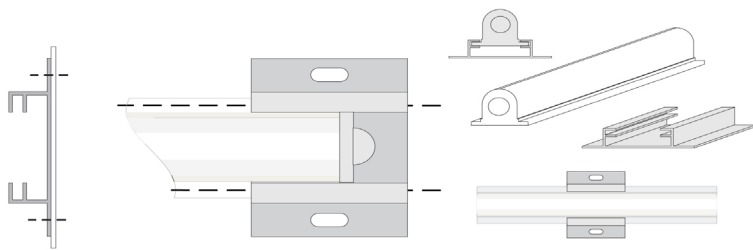


**Mandatory: maintain straight plane**



The position of the Stainless Steel Snap and Aluminum Slide clips are vital to a successful installation both from a mechanical and esthetic view. There should not be any section of the installation that measures longer than 25" without an Aluminum Slide clip in place as directed.

## Installation and Mounting Hardware In-line Brackets



### Aluminum Slide Clip

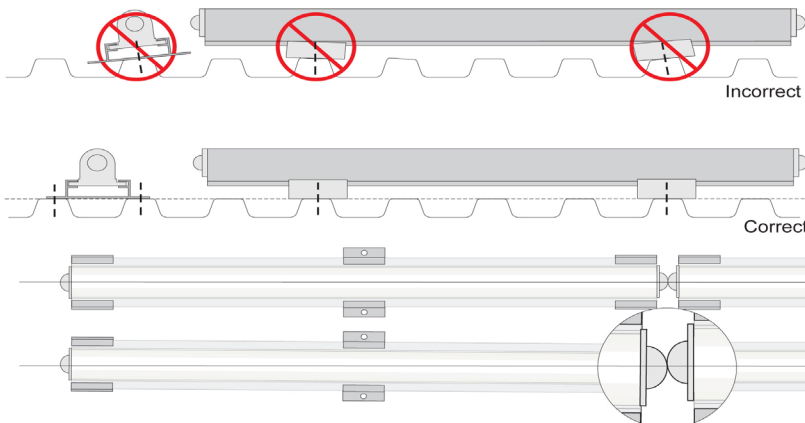
Will need to be placed inline on or about 25" on center along with one Snap clip on each end.

See Illustration at left: When marking off and laying out your Slide Brackets pay close attention to the angle of the surface making sure that they are same across the length of the project. Failing to do so can cause the Slide Clips to apply uneven pressure in the mounting flange possibly leading to cracking of the housing and eventual failure of the border tube.

The best way to determine where to apply the clips is to use a long level straight edge across the face of the building and mark the points where all Clips will be on the same level plane.

Note: there may be times where you may have to shim some of the Clips along the way to maintain the same plane.

**Mandatory: maintain straight plane**



Note: as little as five degrees off will alter the tube enough to noticeably distort the overall line.

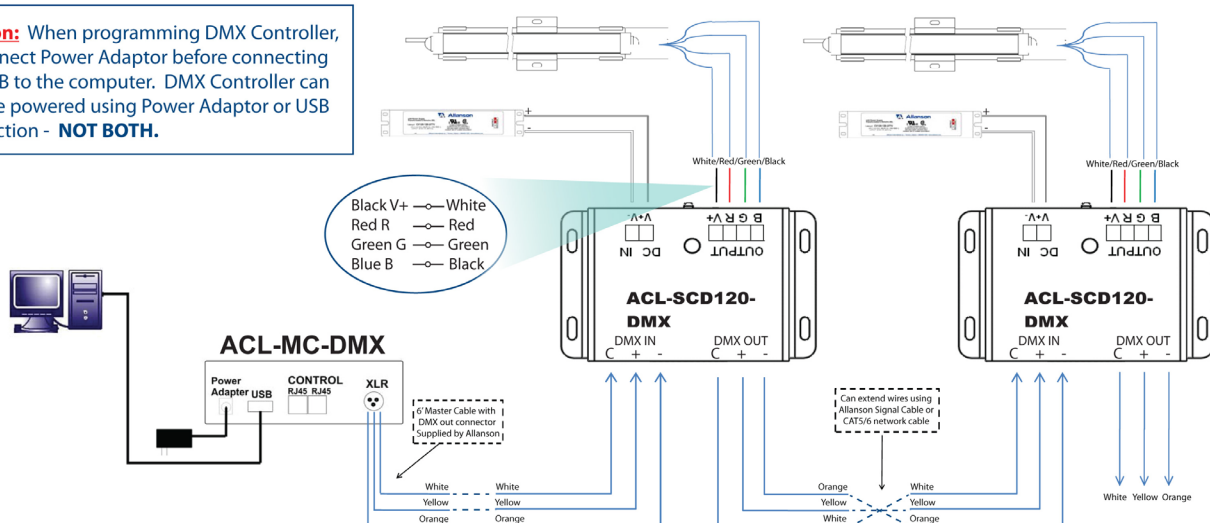
## Mounting Hardware

PART #	Stainless Steel Snap	Aluminum Slide	Wire Retainer
	Clip	Clip	Clip
ARBT-04	2	0	1
ARBT-07	2	0	1
ARBT-09	2	0	1
ARBT-11	2	0	1
ARBT-14	2	0	1
ARBT-16	2	0	1
ARBT-19	2	0	1
ARBT-21	2	0	1
ARBT-23	2	1	1
ARBT-26	2	1	1
ARBT-28	2	1	1
ARBT-31	2	1	1
ARBT-33	2	1	1
ARBT-35	2	1	1
ARBT-38	2	1	1
ARBT-40	2	1	1
ARBT-43	2	1	1
ARBT-45	2	1	1
ARBT-47	2	1	1
ARBT-50	2	1	1
ARBT-52	2	1	1
ARBT-55	2	2	1
ARBT-57	2	2	1
ARBT-59	2	2	1
ARBT-62	2	2	1
ARBT-64	2	2	1
ARBT-67	2	2	1
ARBT-69	2	2	1
ARBT-71	2	2	1
ARBT-74	2	2	1

## Wiring Diagram - Version 1 of 3

### ACL-MC-DMX with ACL-SCD120-DMX & ARBT-XXRGB

**Caution:** When programming DMX Controller, disconnect Power Adaptor before connecting the USB to the computer. DMX Controller can only be powered using Power Adaptor or USB connection - **NOT BOTH.**

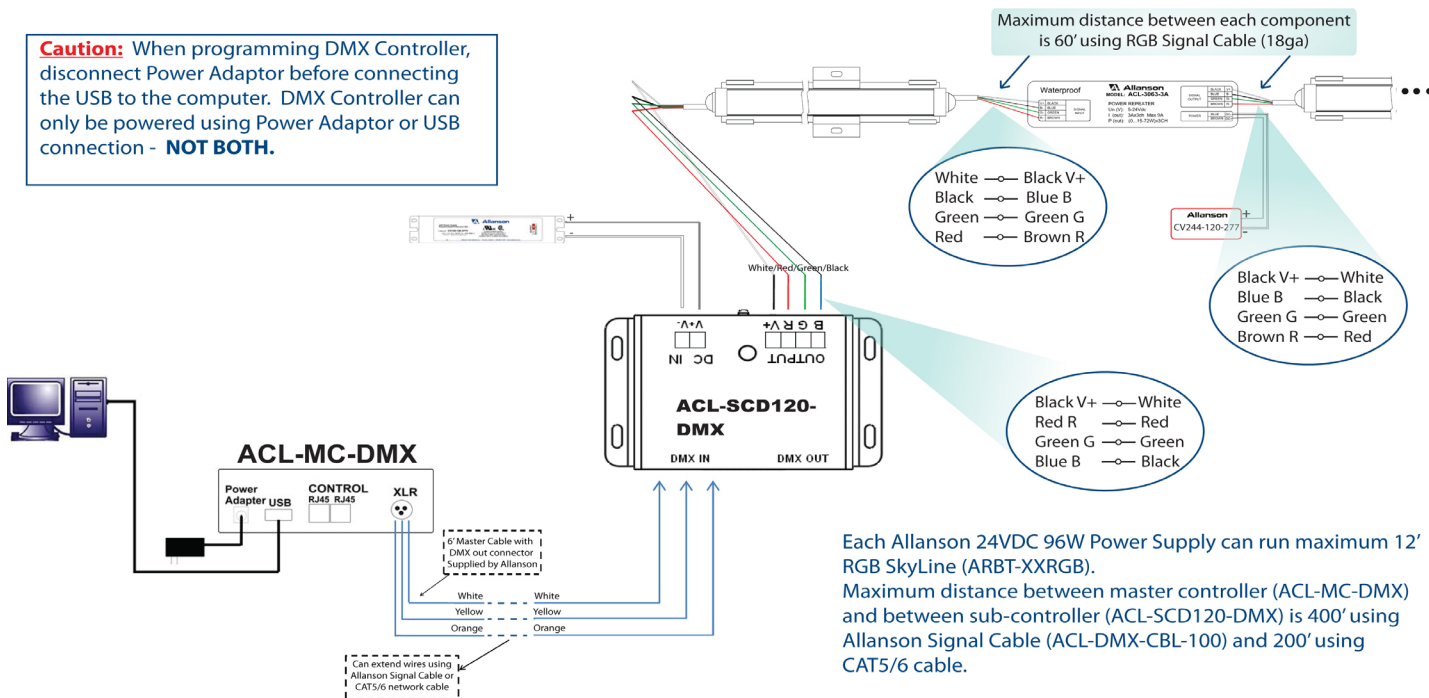


Each Allanson 24VDC 96W Power Supply can run maximum 12' RGB SkyLine.  
Maximum distance between master controller (ACL-MC-DMX) and between sub-controller (ACL-SCD120-DMX) is 400' using Allanson Signal Cable (ACL-DMX-CBL-100) and 200' using CAT5/6 cable.

## Wiring Diagram - Version 2 of 3

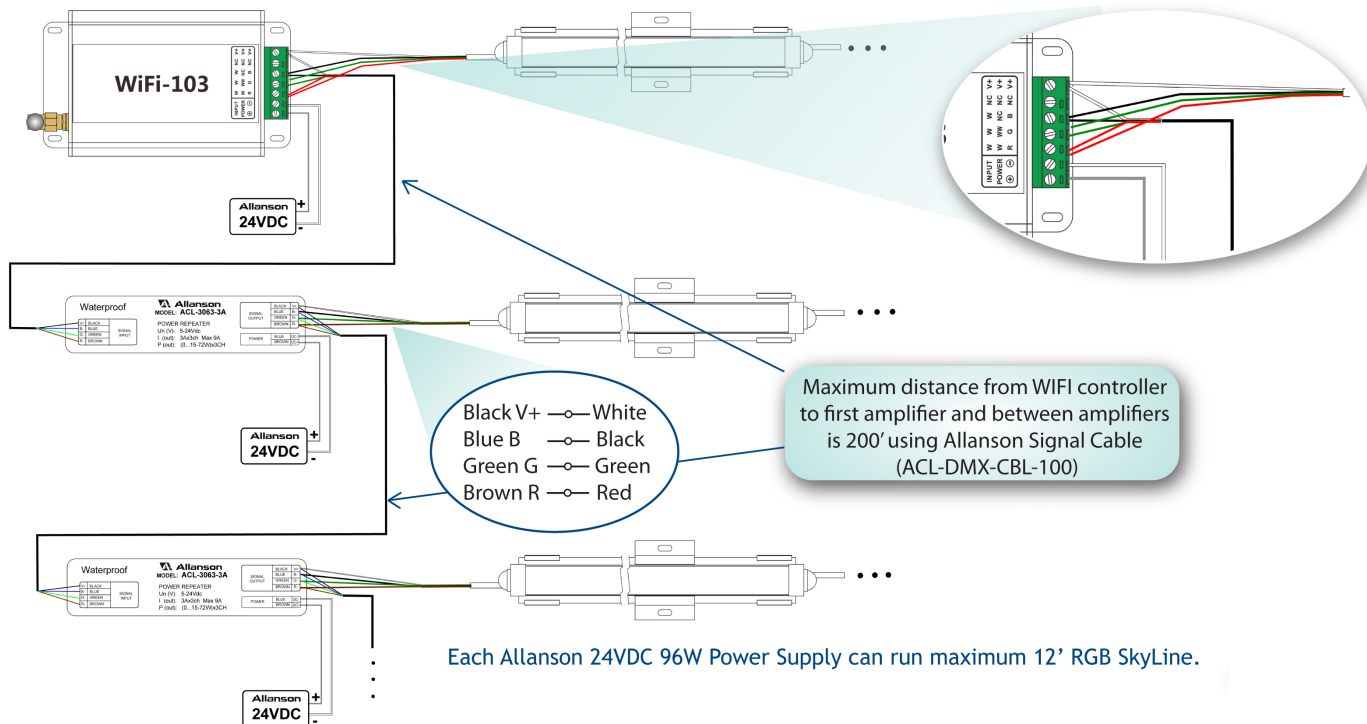
ACL-MC-DMX with ACL-SCD120-DMX, ACL-3063-3A, & ARBT-XXRGB

**Caution:** When programming DMX Controller, disconnect Power Adaptor before connecting the USB to the computer. DMX Controller can only be powered using Power Adaptor or USB connection - **NOT BOTH**.



## Wiring Diagram - Version 3 of 3

ACL-WIFI-103 with ACL-3063-3A & ARBT-XXRGB



**RGB3 System** HAS PREDETERMINED PROGRAMS TO SELECT FROM TO MEET YOUR NEEDS. CANNOT BE CHANGED OR CUSTOMIZED.

- Tricolor emitter is brighter and more efficient
- Pre-set programs
- Time delayed program capability
- DMX programming and signal capability
- Maximized sign awareness in any environment
- 3 larger light sources versus 9 individual point sources
- Fewer power supplies required to light the same sign
- We can pre-program the system to your specifications
- You can easily program the system in your facility
- Program on site using Allanson's exclusive design software

*Call for pricing*

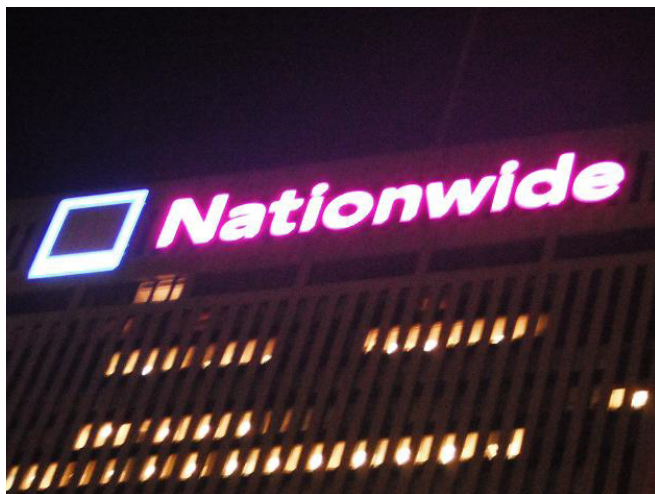
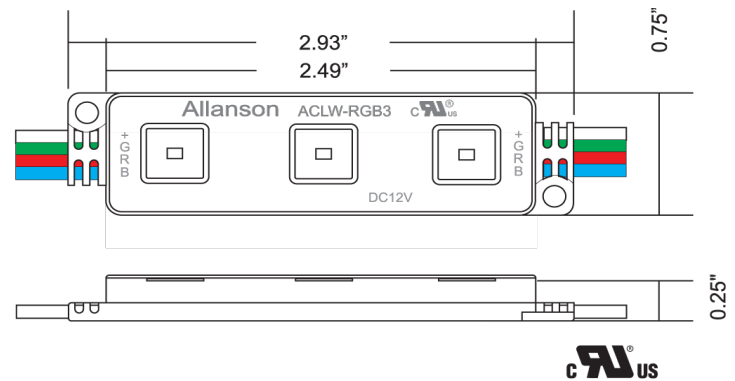


**Specifications**

<b>Part Number</b>	ACLW-RGB3 25
<b>LED Channels</b>	Red, Green, Blue
<b>Input Voltage</b>	DV 12V
<b>Power Consumption/Mod</b>	0.72W
<b>Beam Angle</b>	110°
<b>Dimensions</b>	2.93" x 0.75" x 0.25"
<b>Mod/Foot</b>	2.5
<b>Max Mod/60W Power Supply</b>	75
<b>Operating Temperature</b>	-30°C - +60°C
<b>Environmental Rating</b>	IP 67
<b>Warranty</b>	5 Years
<b>Packaging</b>	
<b>Single Unit (Various Size)</b>	25
<b>Bulk Packaging</b>	600

**Loading Recommendation**

<b>CV125-120 BLK (60W)</b>	75 Modules
<b>CV125-120-277V BLK (60W)</b>	75 Modules
<b>CV125-347 (60W)</b>	75 Modules
<b>CV12125-MV (60W + 60W)</b>	75 + 75 Modules



## DMX & WIFI Controllers - **FOR RGB SKYLINE & RGB3 SYSTEM** Master Controllers

### **ACL-PPMC-DMX**

- Pre-programmed DMX Master Controller
- 16 sub-controller capability RGB Pre-Programmable Master Controller
- 32 preset programs available
- Microphone for sound control
- Speed and intensity can be adjusted
- Develop your own color with 255 level of each red, green, and blue
- Maximum distance from DMX master controller to sub-controller is 200 ft
- Dimensions: 3.82" L x 2.36" W x 1.57" H



### **ACL-MC-DMX**

- DMX Master Controller
- 512 Channel, 170 sub-controller capability ACL-MC-DMX
- Links sub-controllers together
- Multiple signs can be addressed individually
- Stores up to 32 user defined programs
- Uses DMX 512 protocol signal via XLR interface
- USB programming interface
- Can be powered by 120 Volt AC adaptor (included) or USB port (optional)
- Day, hour and minute time setting capability
- 120 Volt AC power adaptor included
- Used DMX 512 protocol signal via XLR interface
- Speed, fade and strobe adjustable
- Maximum distance from DMX master controller to sub-controller is 200 ft
- Dimensions: 7.125" L x 4.75" W x 1.56" H



## Sub-Controllers

### **ACL-SCD120-DMX**

- Runs up to 75 modules of RGB3 DMX System or 12 ft of RGB SkyLine Rigid Border Tubing
- Uses economical 12 VDC or 24 VDC Class 2 power supplies
- 5 built in dip switch preset programs
- Operates independently or as part of system
- Dimensions: 4.06" L x 2.625" W x 1.125" H





**WIFI Controller**

**ACL-WIFI-103**

- Controls up to 75 modules of RGB3 System or 12 ft of RGB SkyLine Rigid Border Tubing
- Power Amplifier ACL-3063-3A can control an extra 75 modules per unit or extra 12 ft of RGB SkyLine Rigid Border Tubing with the same lighting effects
- Stand-alone Non-DMX system
- Maximum wifi control distance is 320 ft using the smart phone app
- Numerous variables/interferences may influence wireless distance
- Max RF transmission distance is 95 ft line of sight via remote control
- 32 preset programs and 9 user defined colors via remote control
- Remote control sold separately
- Dimensions: 5.02" L x 2.87" W x 1.75" H



*2,940 Allanson RGB DMX Modules were installed in the Argosy sign. The RGB Color Changing Modules allow Argosy Casino to program color changing functions and themes that ties in with their image.*

*Allanson RGB DMX Modules can be programmed to allow each letter to change a different color, all letters to change the same color at the same time, colors to fade from one letter to the next, colors to change in reverse, or flash if desired. One of the color schemes currently programmed allows Argosy to display the colors of the American Flag. Each Argosy letter goes through a sequence where they change from blue to red to white and then back again. Colors change from left to right to left.*

**RGB3 Addressable** CUSTOMIZABLE PROGRAM BY ALLANSON WITH COST ASSOCIATED TO MEET CUSTOMERS' REQUIREMENTS.

- Dynamic light effects without a display board
- Each module is individually addressable
- Customized programming
- Time delayed program capability
- Compatible with most SPI Controllers
- Excellent for both signage and architectural lighting applications
- 21000 modules per Allanson Controller
- IP 67 rated for outdoor applications
- 5 year standard warranty



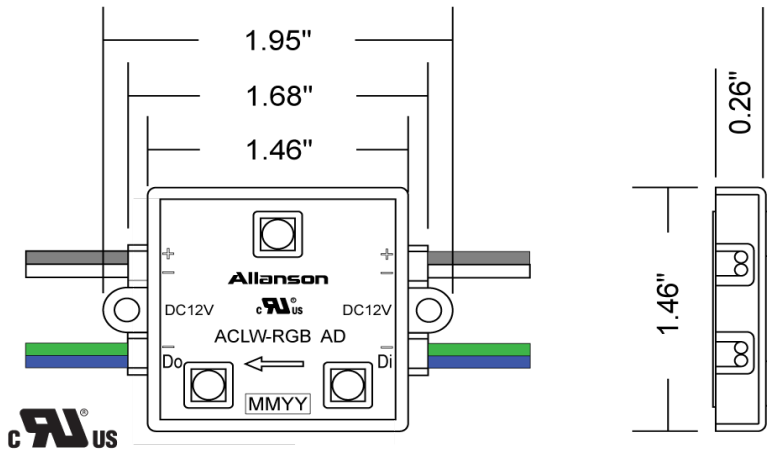
*Call for pricing*

## Specifications

<b>Part Number</b>	ACLW-RGB AD
<b>LED Channels</b>	Red, Green, Blue
<b>Input Voltage</b>	DV 12V
<b>Power Consumption/Mod</b>	0.72W
<b>Beam Angle</b>	110°
<b>Dimensions</b>	1.95" x 1.46" x 0.26"
<b>Mod/Foot</b>	2.5
<b>Max Mod/60W Power Supply</b>	80
<b>Operating Temperature</b>	-30°C - +60°C
<b>Environmental Rating</b>	IP 67
<b>Warranty</b>	5 Years
<b>Packaging</b>	
<b>Single Unit (Various Size)</b>	40
<b>Bulk Packaging</b>	480

## Loading Recommendation

<b>CV125-120 BLK (60W)</b>	80 Modules
<b>CV125-120-277V BLK (60W)</b>	80 Modules
<b>CV125-347 (60W)</b>	80 Modules
<b>CV12125-MV (60W + 60W)</b>	80 + 80 Modules



## Controllers - **FOR RGB ADDRESSABLE**

### **Addressable Controller (ACL-ADC-SPI)**

- Enormous capability of controlling up to 21000 modules
- 14 Programs can be stored with SD card
- Day, hour, and minute time setting capability
- Maximum distance from controller to first module or between modules is 60 ft
- 120 Volt AC power adaptor, channel adaptors, jumper cables, and SD card and SD card reader included
- Operates independently without sub controller
- Dimensions: 7.75" L x 4.72" W x 1.85" H



### **DMX Master Controller (ACL-MC-DMX) + Signal Converter from DMX to SPI (ACL-DMXSPI)**

- Capability of controlling up to 170 modules
- Stores up to 32 user defined programs
- Day, hour, and minute time setting capability
- DMX 512 protocol signal via XLR interface
- Speed, fade, and strobe adjustable
- USB programming interface
- Can be powered by 120 Volt AC adaptor (included) or USB port (optional)
- Maximum distance from converter to first module or between modules is 60 ft
- Maximum distance from DMX master controller to converter is 200 ft
- **Dimensions (A): 6.89" L x 2.05" W x 1.30" H**
- **Dimensions (B): 7.13" L x 4.75" W x 1.56" H**

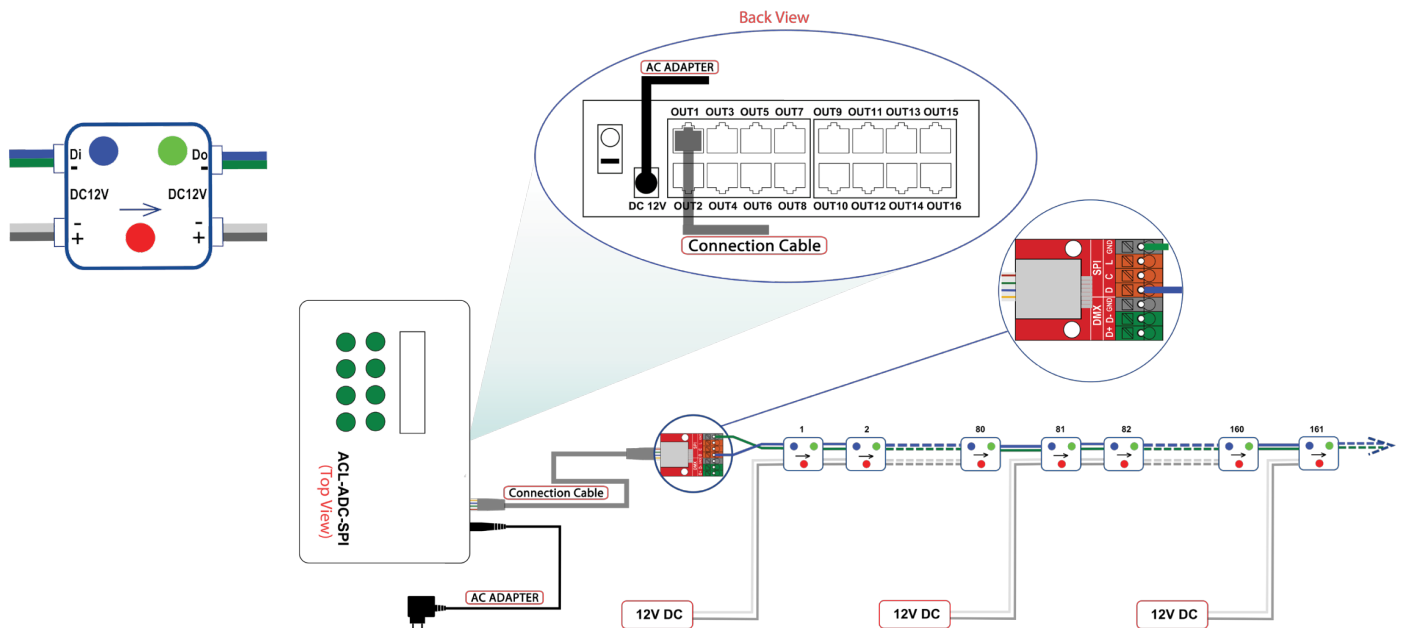


### **Addressable Preprogrammed Controller (ACL-ADPPC)**

- Controls from 8 to 360 modules
- 16 Preset Programs
- Adjust speed, direction and fade
- Compact size
- Speed, direction, fade, and strobe are adjustable
- Maximum RF transmission distance is 130 ft line of sight
- Maximum distance from controller to first module or between modules is 60 ft
- Wireless remote and 120 Volt AC power adaptor included
- Dimensions: 5.30" L x 1.18" W x 0.79" H

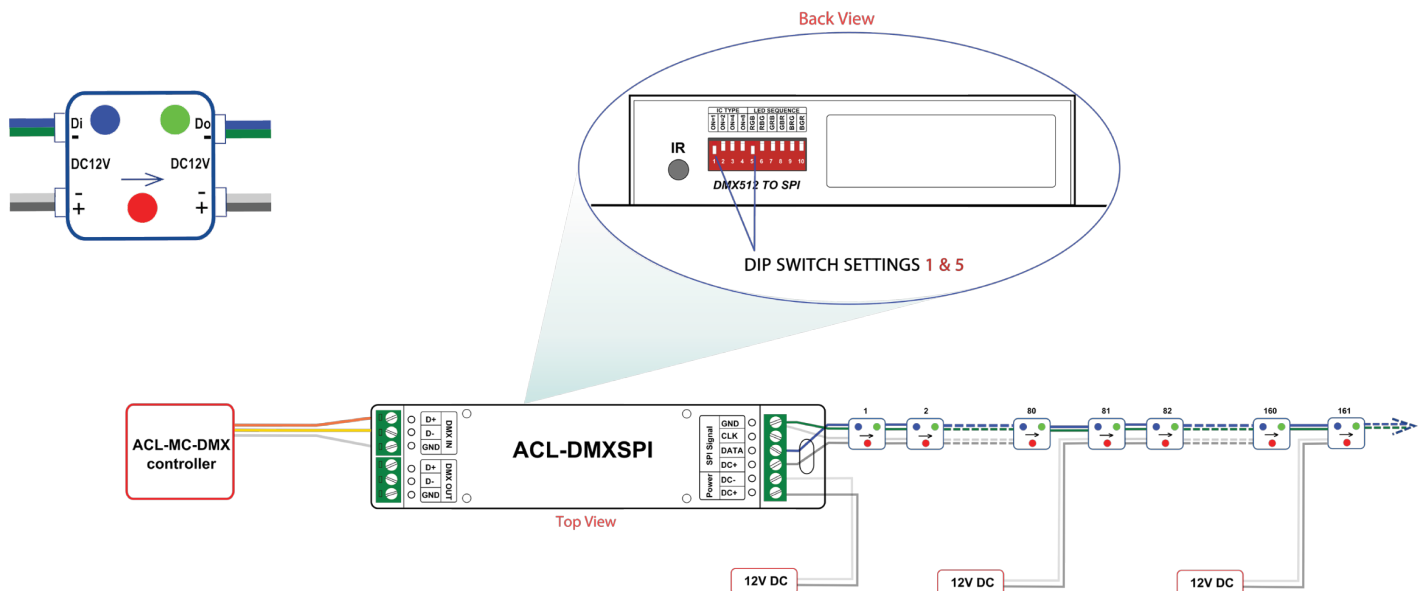


## Wiring Diagram: ACL-ADC-SPI & ACLW-RGB AD



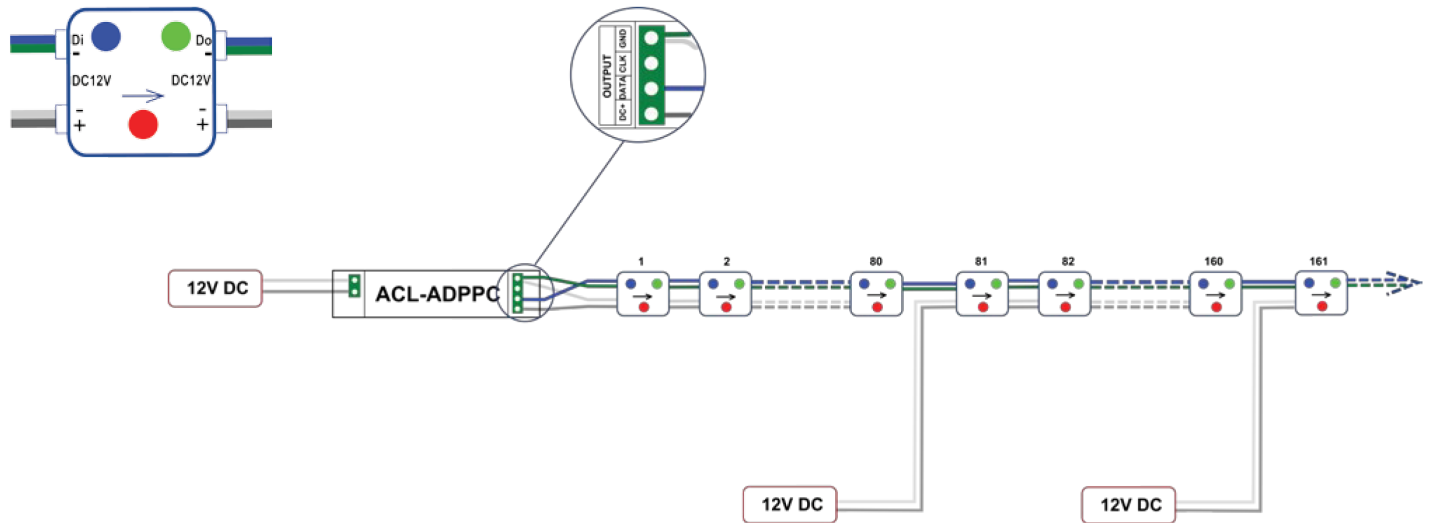
Each Allanson 60W Power Supply (CV125 series) can run maximum 80 modules.  
 Maximum 16 Channels per controller. Maximum 1634 modules per channel.  
 Maximum distance between controller and first module and in between subsequent modules is 25M.

## Wiring Diagram: ACL-MC-DMX with ACL-DMXSPI & ACLW-RGB AD

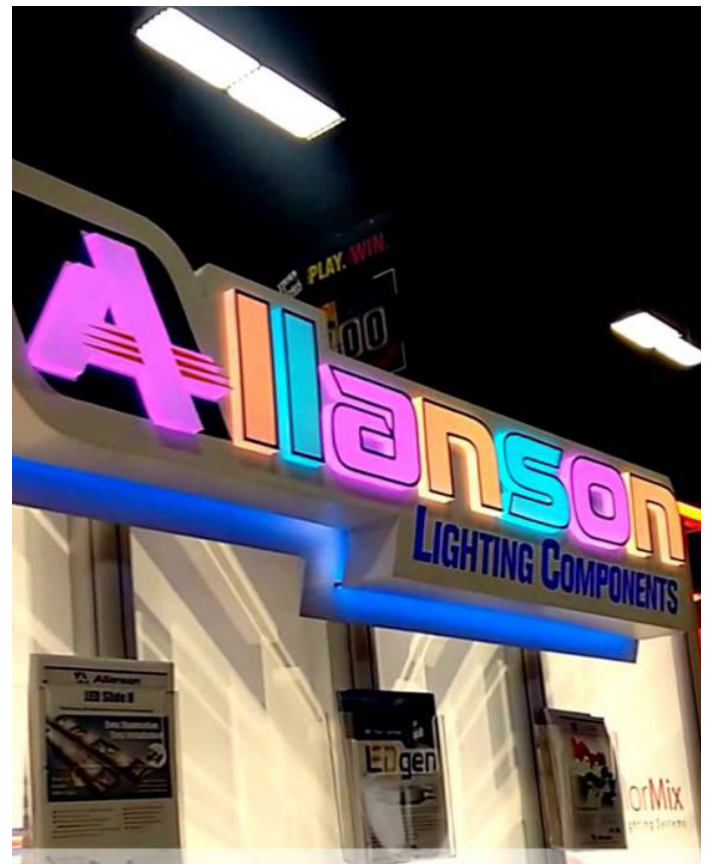


Each Allanson 60W Power Supply (CV125 series) can run maximum 80 modules.  
 Maximum 170 modules per ACL-MC-DMX Controller.

## Wiring Diagram: ACL-ADPPC & ACLW-RGB AD



Each Allanson 60W Power Supply (CV125 series) can run maximum 80 modules.  
Each ACL-ADPPC can run 8-360 modules.



**ACCESSORIES** *Note:* signal cable(CAT-5) not supplied.

**RGB Signal Booster**  
**(ACL-RGB-CATV-BOOSTER)\***

- Boosts the DMX signal an extra 400 ft when used with the Allanson Signal Cable or an extra 200 ft when used with the CAT5 Cable

**Dimensions:** 5.25" L x 2.75" W x 2" H



**SPI Signal Amplifier and Splitter**  
**(ACL-SPI-SA)**

- Extends the SPI signal distance an extra 100 ft when used with the Allanson Signal Cable or an extra 60 ft when used with the CAT5 cable

**Dimensions:** 4" L x 1.25" W x 1.25" H



**DMX512/Network Converter**  
**(ACL-ARTNET-DMX)\***

- Sending DMX signal over IP networks
- Can be configured in two ways: DMX512 to Network or Network to DMX512

**Dimensions:** 7.80" L x 3.07" W x 1.97" H



**Power Amplifier**  
**(ACL-3063-3A)**

- IP68 Waterproof
- Constant Voltage power amplifier
- Duplicates RGB signal
- Multiple amplifiers can be used

**Dimensions:** 6.42" L x 1.38" W x 1.10" H



**DMX512/Network Converter**  
**(ACL-ARTNET-OPENID)\***

- Same as ACL-ARTNET-DMX, except open IP range configuration

**Dimensions:** 5.12" L x 2.36" L x 1.58" H



**Signal Cable**  
**(ACL-DMX-CBL-100)**

- Shielded 3 wire signal cable
- 100 ft per spool



**ACCESSORIES FOR WIRELESS**

*Note:* Numerous variables/interferences may influence wireless distance.

**Wireless Options Between Controllers**

**DMX Wireless Kit**  
**(ACL-DMX-WLS)\***

- Wireless DMX signal transmitter and receiver with 3 pin XLR connector
- Max 320 ft wifi signal range for open area



**DMX Wireless Receiver**  
**(ACL-DMX-WLS-RECEIVER)\***

- Wireless DMX signal receiver works with ACL-DMX-WLS transmitter
- Multiple receivers can be used with one transmitter



**Wireless Options Between Modules**

**PWM RF Transmitter**  
**(ACL-WT3050)\***

- PWM RF Transmitter
- 2.4GHz working frequency
- Max wireless distance is 320 ft open area

**Dimensions:** 7" L x 2.20" W x 1.22" H



**PWM RF Receiver**  
**(ACL-WR 3053-5A)\***

- PWM RF Receiver
- Multiple receivers can be used to sync with one transmitter
- 2.4GHz working frequency
- Max wireless distance is 320 ft open area

**Dimensions:** 7" L x 2.20" W x 1.22" H



**Wireless Options for ACL-WIFI-103**

**Remote Control for ACL-WIFI-103**  
**(ACL-T3-RC)\***

- Full color touch panel
- RF transmission distance is 95 ft line of sight
- 32 preset programs and 9 user defined colors

**Dimensions:** 6.61" L x 3.78" W x 1.34" H



**Constant Voltage Receiving Controller for ACL-WIFI-103**  
**(ACL-T3-CV)\***

- Wireless receiver with built-in antenna
- Max wireless distance is 200 ft open area

**Dimensions:** 7" L x 1.90" W x 1.30" H



\*NON WEATHERPROOF

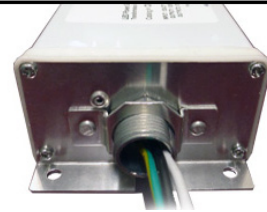
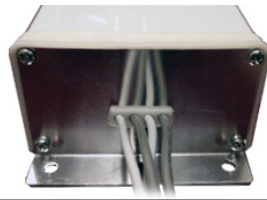
## Allanson Power Supply 60WT/120-277VT, Dry & Damp Location WITH 1/2" NPT Female Thread At One End

- Class 2 power supply
- Overload, and short circuit protected
- High power factor
- 5 Years standard warranty

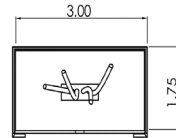
### Applications

- Outdoor Signage
- LED Channel Letters
- Damp & Dry Locations

**TWO POWER SUPPLIES IN ONE!**



1/2" Metal Hose Nipple



Dual Channel Power Supply

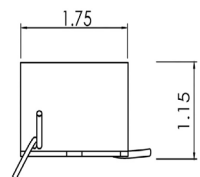
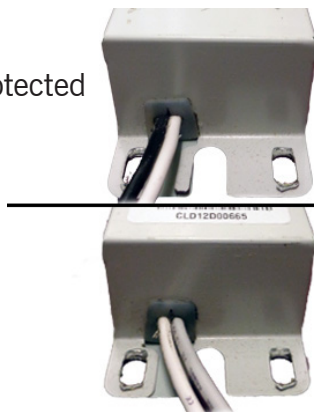
Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120-277	1.25A	12	2 x 5.0	2 x 60	Dry and Damp

## Allanson Power Supply 60WT/120VT, Dry & Damp Location WITHOUT NPT Threaded Nipple/Coupling

- Class 2 power supply
- Overload, and short circuit protected
- High power factor
- 5 Years standard warranty

### Applications

- Outdoor Signage
- LED Channel Letters
- Damp & Dry Locations



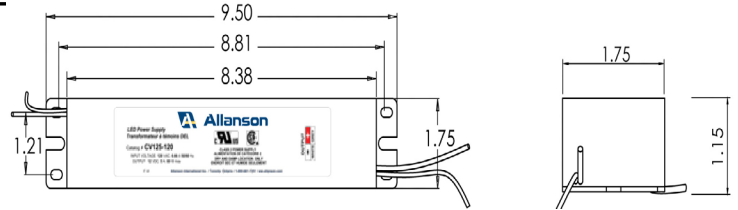
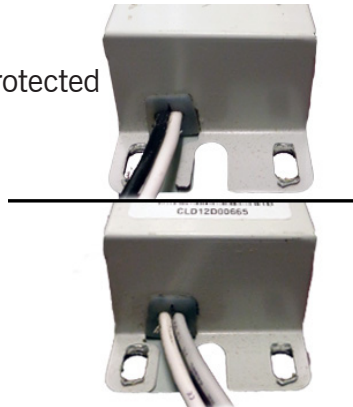
Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120	0.61A	12	5.0	60	Dry and Damp

## Allanson Power Supply 60WT/120-277VT, Dry & Damp Location WITHOUT NPT Threaded Nipple/Coupling

- Class 2 power supply
- Overload, and short circuit protected
- High power factor
- 5 Years standard warranty

### Applications

- Outdoor Signage
- LED Channel Letters
- Damp & Dry Locations



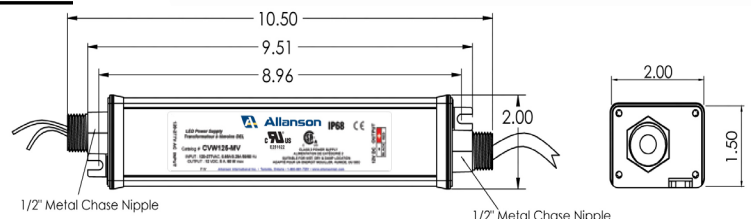
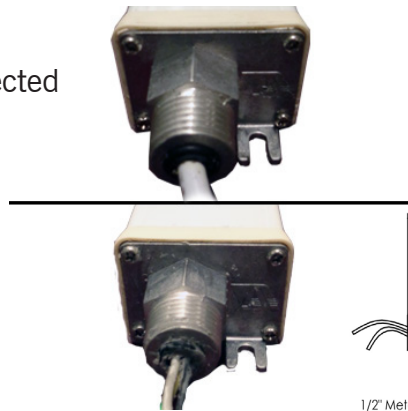
Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120-277	0.29A	12	2.0	24	Dry and Damp

## Allanson Power Supply 60WT/120-277VT, Dry, Damp & Wet Location WITH 1/2" NPT Male Thread at Both Ends

- Class 2 power supply
- Overload, and short circuit protected
- High power factor
- 5 Years standard warranty

### Applications

- Outdoor Signage
- LED Channel Letters
- Damp & Dry Locations



Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120-277	0.65A	12	5.0	60	Dry and Damp & Wet



## Product Features

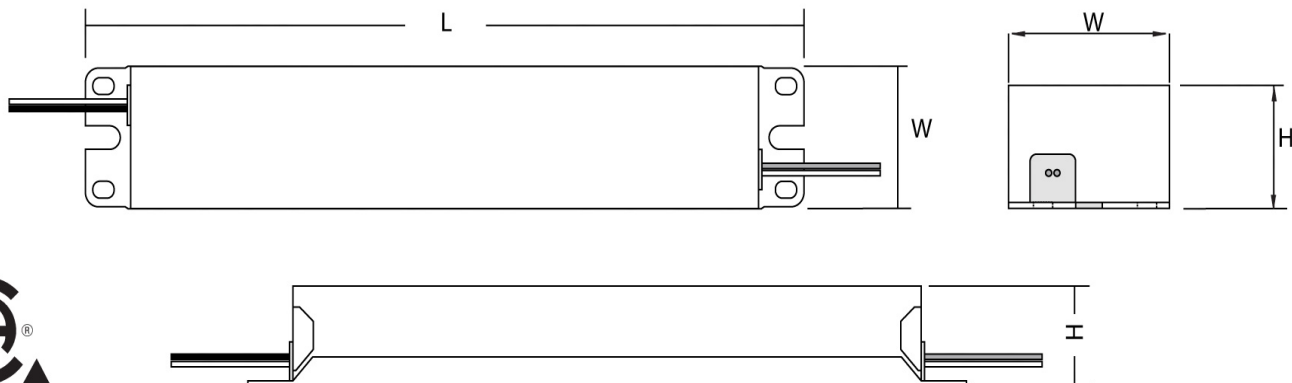
- Suitable for LED sign lighting and signage retrofit kits
- Available in 12 volt and 24 volt D.C
- Available in 12W, 24W, 60W, 72W, 96W, and 2 x 60 (120W)
- Overload and short-circuit protected
- Operating temperature -40°C to 40°C (reduce loading if exceeds 40°C)
- Dry, Damp, and wet location rated
- Fully enclosed
- High Power Factor
- Short circuit protection
- UL Class 2 rated
- CSA Components certified
- 5 year standard warranty

## Specification Chart

Part Number	Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Housing (inches)			Power Factor	Rating
						L	W	H		
<b>12 Volts DC Output</b>										
CV121	120	0.14A	12	1.0	12	5.98	1.34	1.00	HPF	Dry & Damp
CV122-120-277V	120-277	0.29A	12	2.0	24	4.80	1.58	0.96	HPF	Dry & Damp
CV125-120 BLK**	120	0.61A	12	5.0	60	9.50	1.75	1.15	HPF	Dry & Damp
CV125-120-277V BLK**	120-277	0.65A	12	5.0	60	9.50	1.75	1.15	HPF	Dry & Damp
CV125-347	347	0.25A	12	5.0	60	9.50	1.75	1.15	HPF	Dry & Damp
CVW125-MV*	120-277	0.65A	12	5.0	60	10.50	1.91	1.50	HPF	Dry, Damp & Wet
CV12125-MV	120-277	1.25A	12	2 X 5.0	2 X 60	9.50	3.00	1.75	HPF	Dry & Damp
<b>24 Volts DC Output</b>										
CVW243-MV*	120-277	1.00A	24	3.3	72	10.5	1.91	1.50	HPF	Dry, Damp & Wet
CV244-120-277V	120-277	1.04A	24	4.0	96	9.50	1.70	1.18	HPF	Dry & Damp

\* CVW Waterproof series IP68

\*\* BLK - Bulk Packaging includes 20 units



## Loading Recommendation

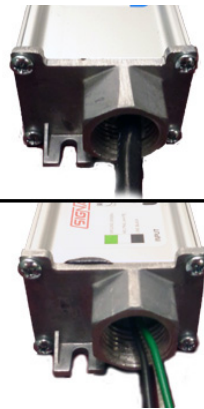
Maximum LED Modules Per Power Supply

		12 Volt DC Systems						
Part Number	LED Power Consumption (Watts)	CV121	CV122-120-277V	CV125-120	CV125-120-277V	CV125-347	CVW125-MV	CV12125-MV
<b>Color Modules</b>								
S05W2RD B	0.50	22	43	108	108	108	108	108+108
S1W2RD B	1.00	10	20	50	50	50	50	50 + 50
ACLW-XX2 100 <sup>#</sup>	0.48	22	45	112	112	112	112	112 + 112
<b>RGB Modules</b>								
ACLW-RGB3 25	0.72	15	30	80	80	80	80	80 + 80
ACLW-RGB AD	0.72	15	30	80	80	80	80	80 + 80
<b>LED Slide for Cabinet Sign Lighting (Single Sided)</b>								
ASL2-48CW-1W	12.60	-	-	3	3	3	3	4 + 4
ASL2-60CW-1W	16.80	-	-	2	2	2	2	3 + 3
ASL2-72CW-1W	19.60	-	-	1	1	1	1	2 + 3
ASL2-84CW-1W	22.40	-	-	1	1	1	1	2 + 3
ASL2-96CW-1W	25.20	-	-	1	1	1	1	2 + 2
ASL2-48CW-3W	11.40	-	-	4	4	4	4	4 + 5
ASL2-60CW-3W	15.20	-	-	3	3	3	3	3 + 4
ASL2-72CW-3W	19.00	-	-	2	2	2	2	2 + 3
ASL2-84CW-3W	22.80	-	-	2	2	2	2	2 + 2
ASL2-96CW-3W	22.80	-	-	2	2	2	2	2 + 2

		24 Volt DC Systems						
Part Number	LED Power Consumption (Watts)	CV244-120-277V	CVW243-MV					
<b>LED Saber for Cabinet Sign Lighting<sup>###</sup></b>								
APS-12CW-30	18.00	10	8	-	-	-	-	-
APS-24CW-30	15.00	6	4	-	-	-	-	-
APS-36CW-30	22.00	4	3	-	-	-	-	-
APS-48CW-30	30.00	3	2	-	-	-	-	-
APS-60CW-30	37.00	2	1	-	-	-	-	-
APS-72CW-30	44.00	2	1	-	-	-	-	-
<b>LED T8 Lamps</b>								
ALT8-48CW-C	20.00	4	3	-	-	-	-	-
<b>LED SkyLine - LED Rigid Border Tubing</b>								
ARBT-98XX <sup>##</sup>	19.04	4	3	-	-	-	-	-
<b>RGB SkyLine - RGB Color Changing Rigid Border Tubing</b>								
ARBT-74RGB	42.00	2	1	-	-	-	-	-
ARBT-74RGB LC	-	Loading for RGB SkyLock Rigid Border Tubing varies based on color.						

**Universal Power Supply 60W/120-277VT, Dry, Damp & Wet Location WITH 1/2" NPT Female Thread at Both Ends**

Universal's new Q-Can driver is designed to simplify installation and provide long dependable life in tough applications. The 12V LED driver with a 60W class 2 output is designed specifically for demanding outdoor signage applications.



The Q-Can comes with threaded adapters that allow connection to junction boxes either directly with couplers or through sections of conduit. This keeps all the electrical connections enclosed to comply with code requirements and eliminates the need for additional enclosures. The jacketed 60" output cable provides additional installation and application flexibility.

With its corrosion resistant aluminum housing, the Q-Can meets UL's requirements for dry, damp, and wet location ratings. Additionally this LED driver meets IP67 for liquid and solid ingress protection.

The LED driver performance features include high efficiency operation with installer friendly universal input voltage. A wide operating temperature range of -40°C to 60°C further enhances the Q-Can's application flexibility.

For maximum installation simplicity, application flexibility, and long reliable operation, look to the Signa Q-Can LED Driver

Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120-277	0.58A/0.26A	12	5.0	60	<b>Dry and Damp &amp; Wet</b>

### Performance

Input Voltage	120 ~ 277 Vac
Input Current (Amps)	0.58A/120V 0.26/277V
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.90
THD max	< 10 %
Output Voltage	12 ± 5 %
Output Current	5 (A) max
Output Power	60 W max

### Physical

Length	10.7 in
Width	2.1 in
Height	1.5 in
Mounting Length	9.9 in w/ 0.9 in offset
Weight	1.7 lbs
Lead Lengths	
Blk, Wht, Grn	5 (A) max
Red, Blk (Jacketed)	60 W max

### Environmental

EMI and RFI	Meets FCC part 15 Non-Consumer Limits (Class A)
Operating Temp.	-30°C to 60°C (-22°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
tc	85°C
IP Rating	IP67

Specification subject to change without notice.

### Protection:

- Over voltage, Over current and short circuit

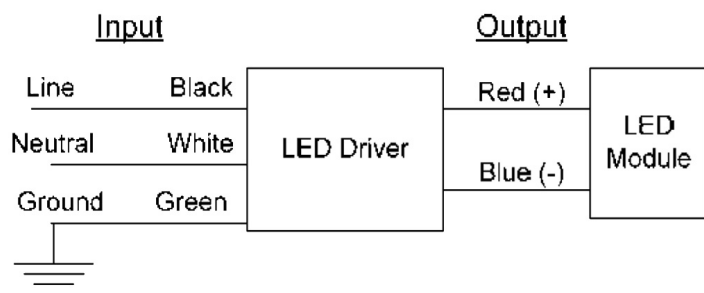
### Safety:

- UL 1310
- CAN/CSA-C22.2 No. 223-M91

### Installation:

- Class 2 wiring per NEC Article 725 is required
- This unit is intended to be mounted with the input side connected with a 1/2" conduit adapter to a junction box.

### Wiring Diagram:

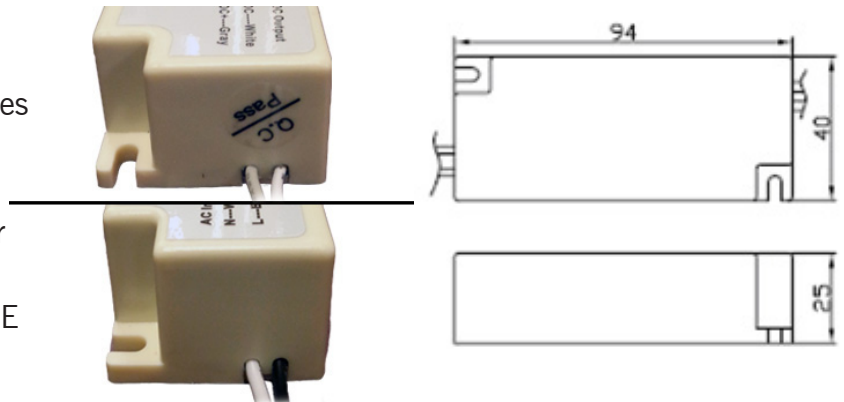


Lead-wires are 18 AWG 105°C /600V solid copper.



## JS LED Power Supply 20WT/120VT, Waterproof WITHOUT NPT Threaded Nipple/Coupling

- 20 Watts Output, Constant Voltage or Constant Current
- Suitable in standard electrical junction boxes
- Waterproof Design within a 2x4 J Box, IP66, NEMA4,
- Convection Cooled, Plastic Housing, Dry or Damp Rated
- UL(cUL)1310, UL(cUL)48 Class 2, FCC, CE Approved
- 3 Year Warranty



## Applications

- Outdoor Signage
- LED Channel Letters
- Damp, Wet & Dry Locations
- Electrical Junction Boxes



Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120	0.6A	12	1.67A	20	<b>Waterproof</b>

## Specifications

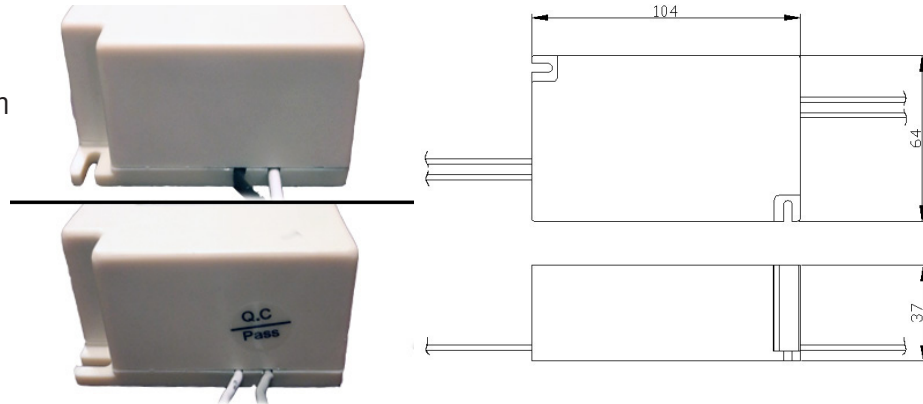
<b>Input Voltage Range</b>	90 ~ 264Vac	<b>Operation Temp.</b>	- 30 ~ +60 °C
<b>Input Frequency Range</b>	47 ~ 63Hz	<b>Temp.De-rating</b>	1% per °C at 60 ~ 70°C %
<b>Input Current</b>	Max. 115V/ 0.6A , 230V/ 0.3A	<b>Storage Temp.</b>	- 40°C ~ + 85°C
<b>Input Inrush Current</b>	< 5A/115V, 10A/ 230V	<b>Humidity (Non – Condensing)</b>	5% ~ 90%
<b>Power Factor</b>	> 0.9 at Full Load, 115Vac	<b>Vibration Frequency</b>	5 ~ 50 Hz, Shock : MIL-STD-810E
<b>Efficiency</b>	84 % Typical at full	<b>MTBF ( @25 °C)</b>	>100,000 Hours. MIL-217F
<b>Protection</b>	OCP , OVP ,SCP – Auto Recovery	UL(cUL)1310, UL(cUL)48 Class 2 Approved 47CFR Part 2 and CISPR B , CE, IP66	

## Model Listing

Model	Working Voltage	DC Output Current (mA)	MAX. Watts	OCP (mA)	OVP ( V )	Regulation	
						Load	Line
MJ-1220	12V	0 ~ 1660	20	2500	15~18	3%	1%

## JS LED Power Supply 40WT/120VT, Waterproof WITHOUT NPT Threaded Nipple/Coupling

- UL8750, UL60950, LED Driver
- 40 Watts Output, Constant Voltage
- Protections: With OCP, OVP, SCP Protection and Auto Recovery
- Water Protection (IP67)
- Convection Cooled, Aluminum Housing
- 100% full load burn-in test
- Class 2 Power Supply
- 5 Years Warranty



## Applications

- Outdoor Signage
- LED Channel Letters
- Damp, Wet & Dry Locations
- Electrical Junction Boxes



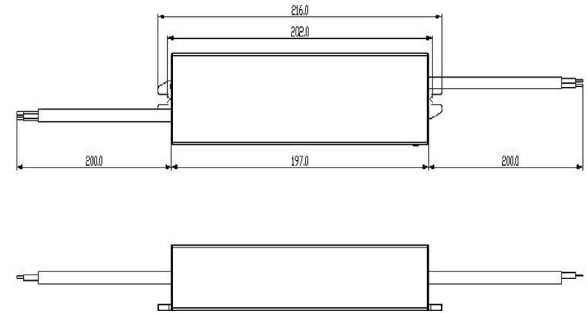
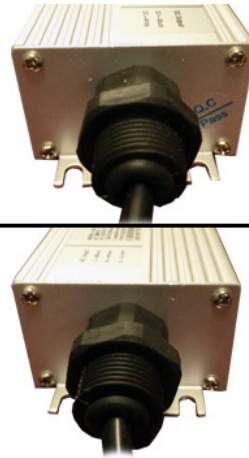
Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120	0.5A	11.4	3.3A	40	<b>Waterproof</b>

## Specifications

<b>Input Volts</b>	100-240V
<b>Current</b>	0.5hz
<b>Frequency</b>	57-63HZ
<b>No-load Input Power</b>	N/A
<b>Output Volt</b>	11.4-12.6V
<b>Output Ripple Voltage</b>	100mV
<b>Output Current</b>	3.3A
<b>Continous Output Power</b>	40W
<b>Efficiency</b>	82%
<b>Operating Temperature</b>	-40 °C - 40 °C

## JS LED Power Supply 60WT/100-277VT, Wet Location WITH 1/2" NPT Male Thread at Both Ends

- 60 Watts Output, Constant Voltage or Constant Current
- Suitable for Dry, Damp, or Wet with proper terminations
- Waterproof Design, PFC
- Convection Cooled, Aluminum Housing
- UL1310, Class 2 output Certified
- With OCP, OVP, SCP Protection and Auto Recovery
- 3 Years Warranty



## Applications

- Outdoor Signage
- LED Channel Letters
- Damp, Wet & Dry Locations



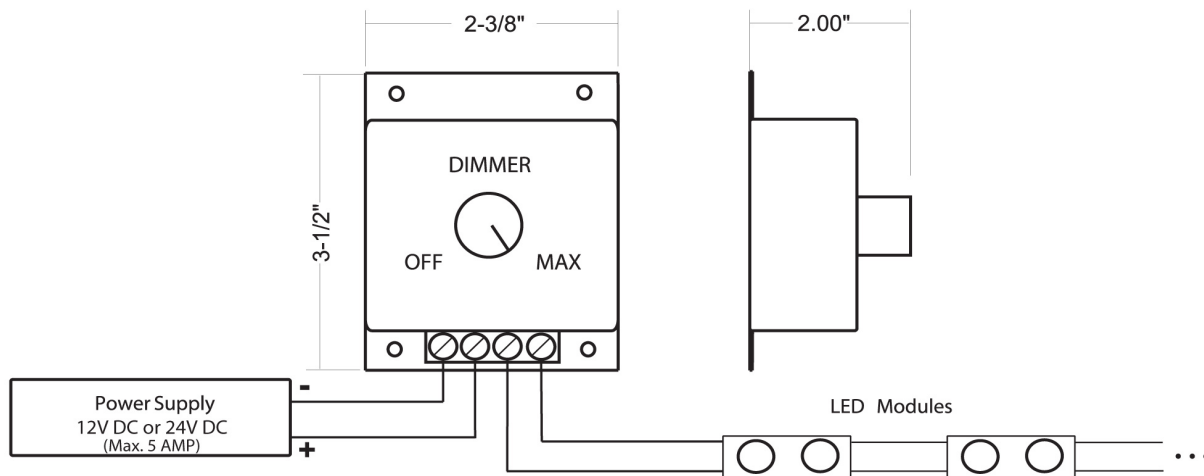
Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Location
120	1.4A	11.6-12.6	5A	60	<b>Wet</b>

## Specifications

Input Volts	100-240V
Current	1.4A
Frequency	57-63HZ
Output Volt	11.4-12.6V
Output Ripple Voltage	100mV
Output Current	5A
Continuous Output Power	60W
Peak Output Power	60
Efficiency	82%
Operating Temperature	-30 °C - 60 °C

## Allanson Stormtight LED Dimmer

- Manual 0 - 100% brightness adjustment
- Compatible with all 12V and 24V Constant Voltage DC power supplies
- Eliminates current surges and maintains the life of LED's
- Can dim up to 5 Amp load (CV125-120)
- 12V and 24V LED modules can be dimmed by using this Dimmer
- Convenient 4 wire plug in terminal block
- Simple one piece design



## True-Konek - LED Wire Insulator (25 Tubes w/75 Crowns)

- True-Konek is a UL Listed product designed to offer insulation when penetrating through a sign backer or structure with LED wires.
- The small (1/2") PVC allows for quick hole drilling through most surfaces.
- This flexible plastic friction crown with screw hole will allow you to fasten and secure to any surface.





## Paige Power Supply Box

### **LED Power Supply Box UL listed for Wet, Damp & Dry Locations!**

#### **Material**

- 22 ga. Galvanized 2 piece box

#### **Inside Dimensions**

- 11.5" Tall x 7" Wide x 3" Depth

#### **Lower Shelf**

- Seven pre-punched knock-outs
- One predrilled hole for ground lug

#### **Inner Back Panel**

- Raise for attachment of power source without damaging the integrity of the box back

#### **Top of Sides and Bottom**

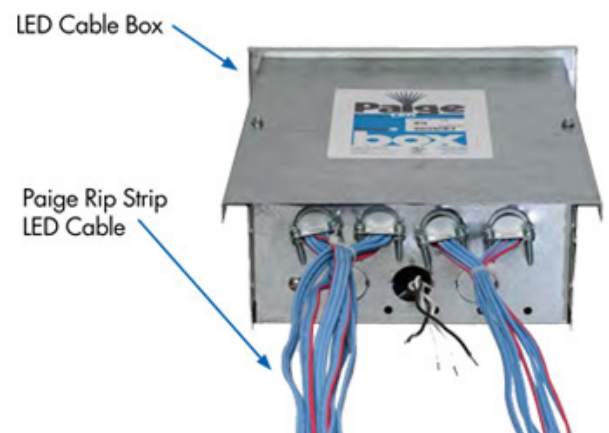
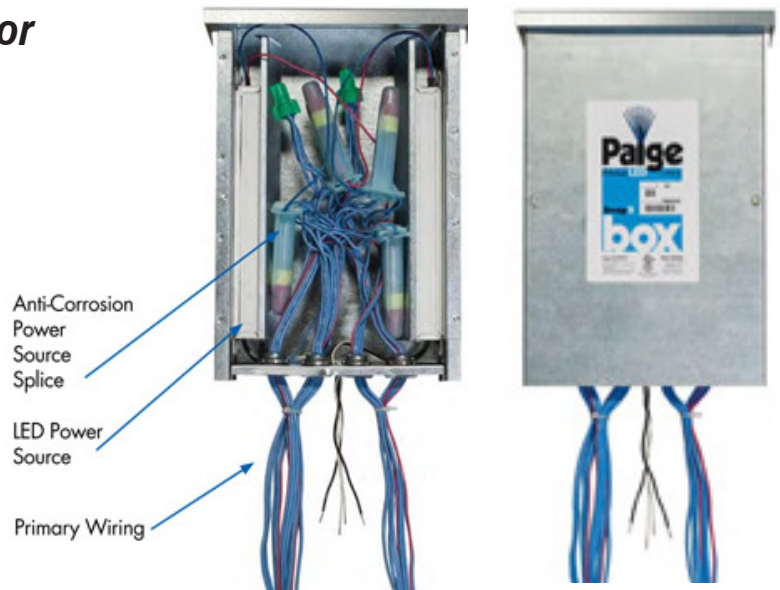
- Pre-punched with air and condensation relief holes

#### **Front Cover**

- Fastening holes centered so attachment can be made either direction

#### **Power Source Usage**

- Will accommodate one or two standard size LED power sources
- For power sources requiring 4" parallel clearance - Power sources must be mounted to sides



## Paige Plus: LED Wire Jacketed **WITHOUT** Ground

This Cable consists of 2 conductor, 18 AWG stranded tinned copper conductor insulated with Polyvinyl Chloride and a Polyvinyl Chloride jacket overall. UL listed sunlight resistant applications.

USE: A 2-18 AWG Conductor PLTC Cable for connecting low voltage DC power sources to LED modules.

Can be used indoors or outdoors.

Available in 250ft Spools.



## Paige Rip Strip: LED Wire **WITH** Ground

Rip Strip with Ground is the only wire designed and tested by UL under its newest Standard (2592) for the specific use of wiring LED letters. It is now smaller, more flexible and 50% easier to install than previously.

This Cable consists of 2 conductor, 18 AWG stranded tinned copper conductor insulated with Polyvinyl Chloride and a 14 AWG stranded bare copper conductor in a zip style Blue Polyvinyl Chloride jacket overall. UL Listed for sunlight resistant applications.

USE: A 2-18 AWG Conductor LED WIRE for connecting low voltage DC power sources to LED modules with a 14 AWG safety ground wire when grounding is required.

Can be used indoors or outdoors.

Available in 500ft Spools.



## Paige Rip Strip: LED Wire **WITHOUT** Ground

This Cable consists of 2 conductor, 18 AWG stranded tinned copper conductor insulated with a Blue Polyvinyl Chloride jacket overall. UL Listed for sunlight resistant applications.

USE: A 2-18 AWG conductor LED WIRE for connecting low voltage DC power sources to LED modules.

Can be used indoors or outdoors.

Available in 500ft Spools.

