

# Power Supplies

## Specifications Guide



# LED Power Supplies

## Product Features

- Suitable for LED sign lighting and signage retrofit kits
- Available in 12 volt and 24 volt DC
- Available in 12W, 24W, 60W, 72W, 96W, 120W (60W + 60W), and 180W (60W + 60W + 60W)
- Overload and short-circuit protected
- High Power Factor (HPF)
- New low profile and linear designs available
- Operating temperature -40°C to 40°C (reduce loading if ambient exceeds 40°C)
- Dry, damp, and wet location rated
- Fully encapsulated
- UL Class 2 rated (SAM Manual)
- CSA certified components
- 5 year standard warranty

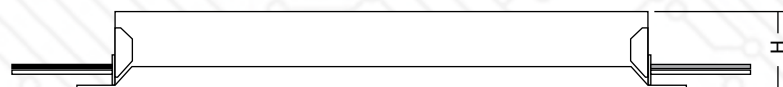
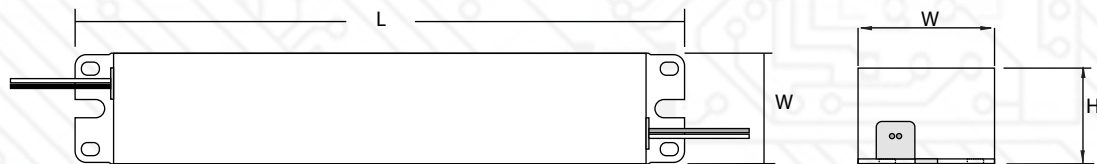
## Specifications Chart

Catalogue Number	Input Voltage	Input Current Amps	Output Volts DC	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	0.27A	12	2.0	24	4.80	1.58	0.96	HPF	Dry & Damp
CV125-120**	120	0.61A	12	5.0	60	9.50	1.85	1.15	HPF	Dry & Damp
CV125-120-277V**	120-277	0.65A	12	5.0	60	9.50	1.85^	1.15	HPF	Dry & Damp
CV125-347	347	0.25A	12	5.0	60	9.50	1.85	1.15	HPF	Dry & Damp
CVW125-MV*	120-277	0.65A	12	5.0	60	10.50	2.00	1.50	HPF	Dry, Damp & Wet
CV12125-MV	120-277	1.25A	12	5.0 + 5.0	120 (60 + 60)	9.50	3.00	1.75	HPF	Dry & Damp
CVL2125-120-277	120-277	1.29A	12	5.0 + 5.0	120 (60 + 60)	16.73	1.70	1.18	HPF	Dry & Damp
CVL3125-120-277	120-277	2.07A	12	5.0 + 5.0 + 5.0	180 (60 + 60 + 60)	20.04	1.72	1.19	HPF	Dry & Damp
<b>24 Volts DC Output</b>										
CVW243-MV*	120-277	0.80A	24	3.3	72	10.5	2.00	1.50	HPF	Dry, Damp & Wet
CV244-120-277	120-277	0.94A	24	4.0	96	9.50	1.85	1.15	HPF	Dry & Damp

^ Possible variance of - 0.10". Please reference instruction manual in package of unit purchased

\* CVW Waterproof series IP68

\*\* Add BLK to part number, which represents bulk packaging and includes 20 units



## Wire Size Recommendation

Recommended wire size from LED Module to Power Supply

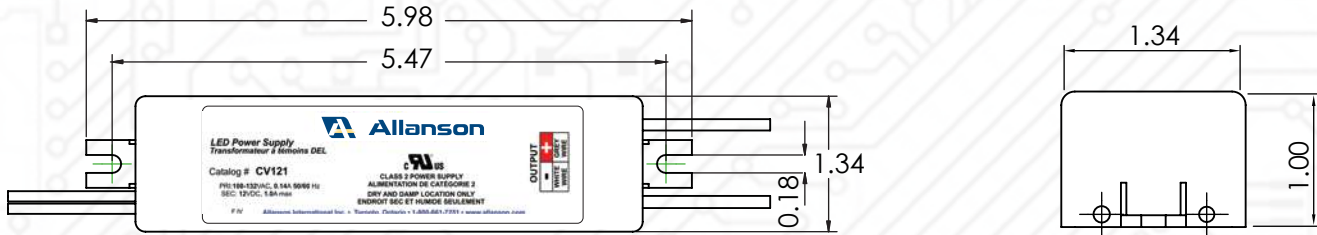
Distance to Power Supply	Stranded Copper Wire Gauge	Expected Voltage Drop
13 Feet	16 AWG	5%
20 Feet	14 AWG	5%
30 Feet	12 AWG	5%



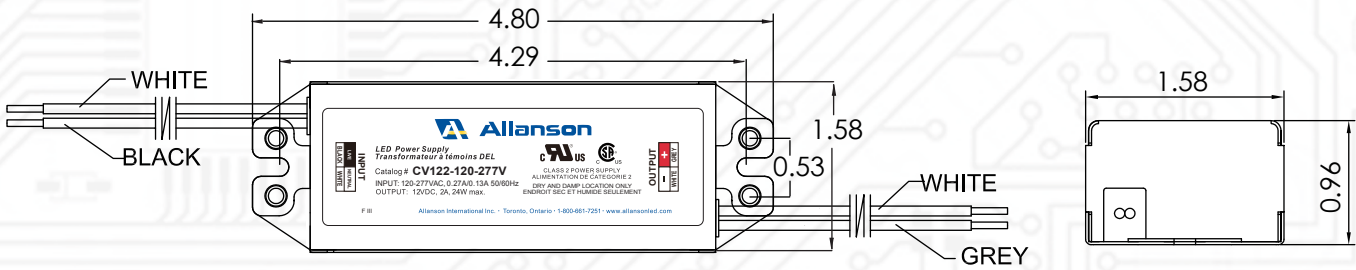
# Product Dimensions

All dimensions are in inches. Drawings are not to scale.

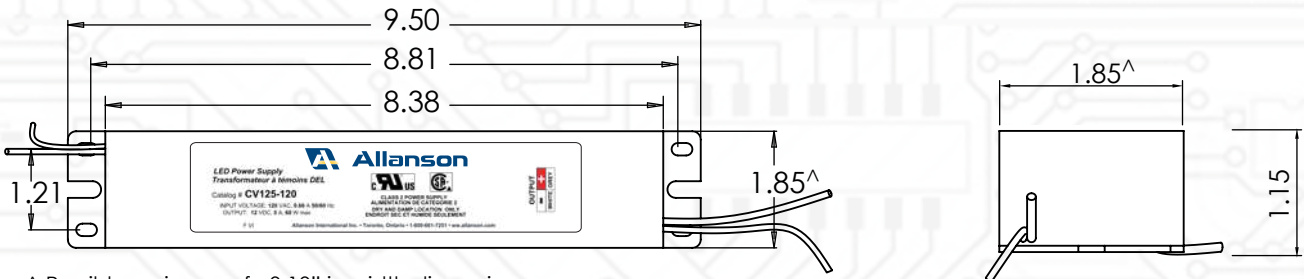
## CV121



## CV122-120-277V

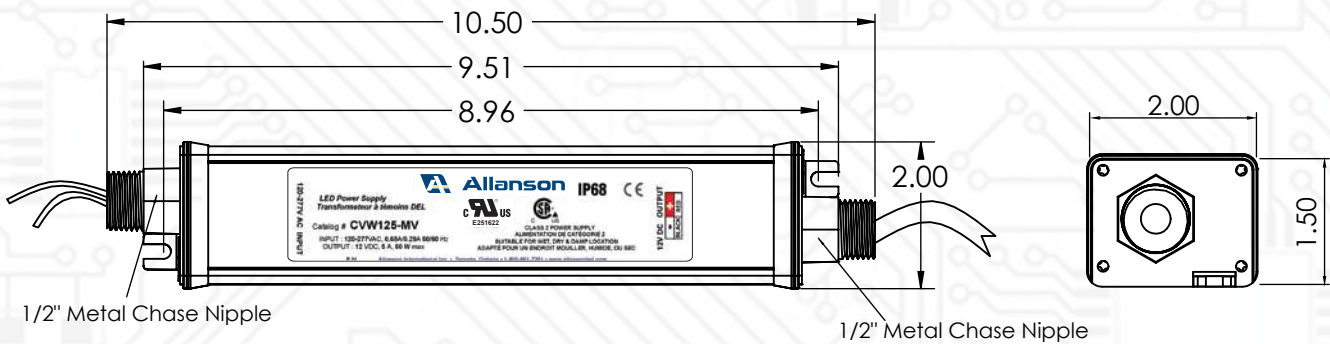


## CV125 Series & CV244-120-277



^ Possible variance of -0.10" in width dimension.  
Please reference instruction manual in package of unit purchased

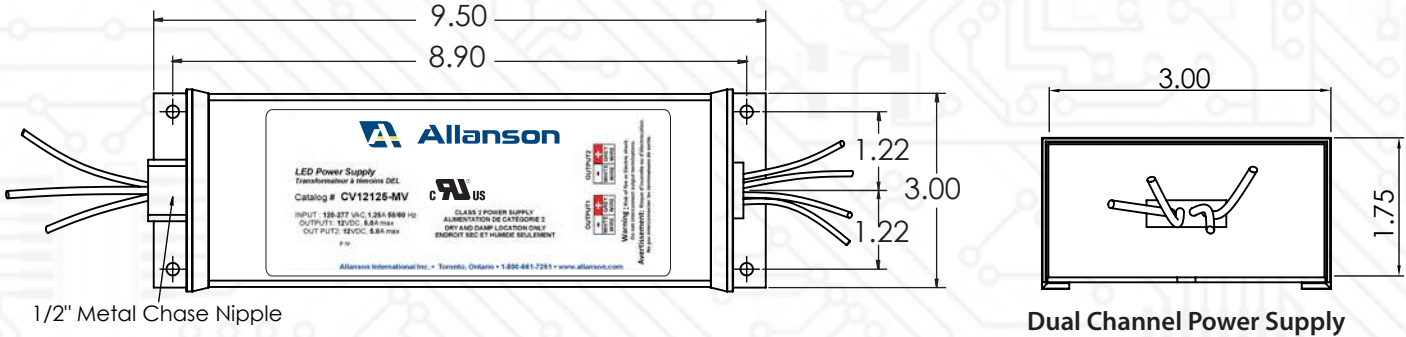
## CVW125-MV & CVW243-MV



# Product Dimensions

All dimensions are in inches. Drawings are not to scale.

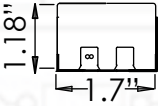
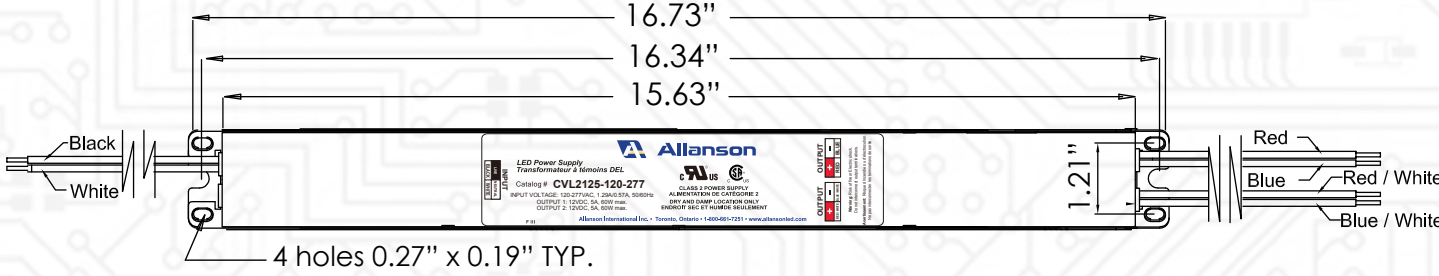
## CV12125-MV



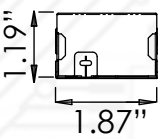
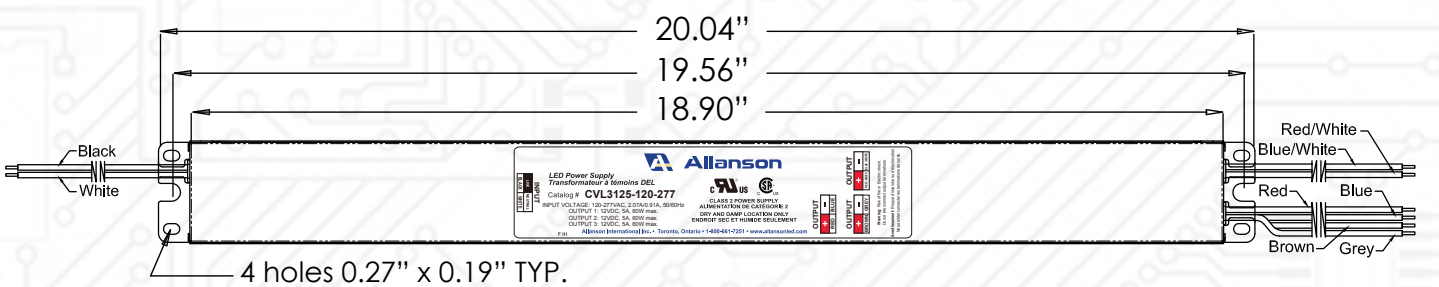
1/2" Metal Chase Nipple

Dual Channel Power Supply

## CVL2125-120-277



## CVL3125-120-277





# Installation Instructions

Scan the QR Codes to access electronic .pdf files

CV121

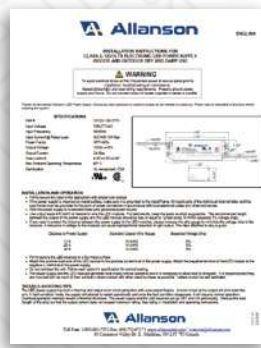


12V

Scan



CV122-120-277V

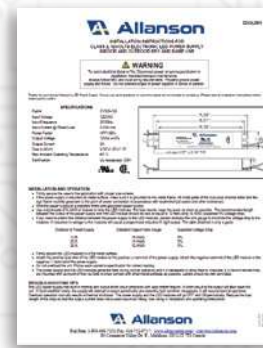


12V

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CV125-120



12V

Scan



CV125-120-277V

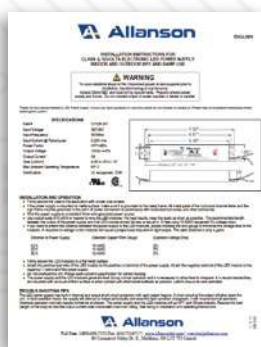


12V

Scan



CV125-347



12V

Scan



CVW125-MV

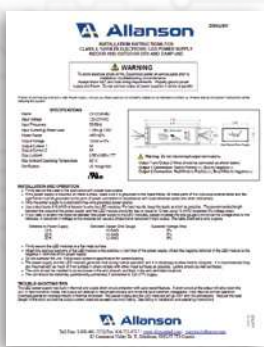


12V

Scan



CV12125-MV

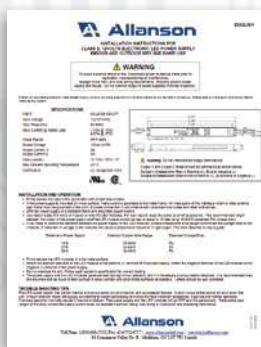


12V

Scan



CVL125-120-277



12V

Scan



CVL3125-120-277



12V

Scan



CVW243-MV

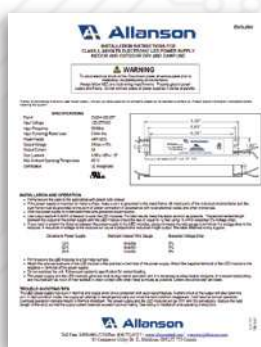


24V

Scan



CV244-120-277



24V

Scan



# 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 CVL12125-120-277	CVL13125-120-277
<b>White Modules</b>									
S03W2CW B M	0.30	30	60	150	150	150	150	150 + 150	150 + 150 + 150
S04W1CW B M	0.36W	30	57	142	142	142	142	142 + 142	142 + 142 + 142
S07W2CW BLP	0.73	14	28	72	72	72	72	72+72	72 + 72 + 72
S07W2WW BLP	0.73	14	28	72	72	72	72	72+72	72 + 72 + 72
S1W2CW	1.10	10	20	50	50	50	50	50 + 50	50 + 50 + 50
S05W2CW B	0.50	22	43	108	108	108	108	108 + 108	108 + 108 + 108
S07W2CW B	0.75	14	28	72	72	72	72	72 + 72	72 + 72 + 72
S1W2CW B	1.10	10	20	50	50	50	50	50 + 50	50 + 50 + 50
S1W2NW B	1.10	10	20	50	50	50	50	50 + 50	50 + 50 + 50
S07W2TW B	0.75	14	28	72	72	72	72	72+72	72 + 72 + 72
S1W2TW B	1.10	10	20	50	50	50	50	50 + 50	50 + 50 + 50
ACLW-CW2 100	0.48	22	45	112	112	112	112	112 + 112	112 + 112 + 112
ACLW-CW-1W	1.40	6	15	27	27	27	27	40 + 40	40 + 40 + 40
ACLW-CW-3W	3.80	3	6	14	14	14	14	14 + 14	14 + 14 + 14
V07W2TW B	0.75	14	28	72	72	72	72	72 + 72	72 + 72 + 72
<b>Color Modules</b>									
S04W1RD B M	0.36W	30	57	142	142	142	142	142 + 142	142 + 142 + 142
S05W2XX B <sup>#</sup>	0.50	22	43	108	108	108	108	108 + 108	108 + 108 + 108
S1W2XX B <sup>#</sup>	1.10	10	20	50	50	50	50	50 + 50	50 + 50 + 50
ACLW-GR2 100	0.48	22	45	112	112	112	112	112 + 112	112 + 112 + 112
ACLW-mY2	0.6	18	36	90	90	90	90	90 + 90	90 + 90 + 90
ACLW-m02	0.6	18	36	90	90	90	90	90 + 90	90 + 90 + 90
<b>RGB Modules</b>									
ACLW-RGB3	0.72	15	30	80	80	80	80	80 + 80	80 + 80 + 80
ACLW-RGB AD	0.72	15	30	80	80	80	80	80 + 80	80 + 80 + 80
<b>RGB SkyLine Flexible Border Tubing (RGB Color Changing)</b>									
AFB1-XXXRGB-12V Q AB*	3.5W/ft (11.5W/m)	-	-	16' 4" (5m)	16' 4" (5m)	16' 4" (5m)	16' 4" (5m)	16' 4" (5m) + 16' 4" (5m)	16' 4" (5m) + 16' 4" (5m) + 16' 4" (5m)
<b>LED Slide for Cabinet Sign Lighting (Single Sided)</b>									
ASL2-48CW-1W	12.60	-	-	3	3	3	3	4 + 4	4 + 4 + 4
ASL2-60CW-1W	16.80	-	-	2	2	2	2	3 + 3	3 + 3 + 3
ASL2-72CW-1W	19.60	-	-	1	1	1	1	2 + 2	2 + 2 + 2
ASL2-84CW-1W	22.40	-	-	1	1	1	1	2 + 2	2 + 2 + 2
ASL2-96CW-1W	25.20	-	-	1	1	1	1	2 + 2	2 + 2 + 2
ASL2-48CW-3W	11.40	-	-	4	4	4	4	4 + 4	4 + 4 + 4
ASL2-60CW-3W	15.20	-	-	3	3	3	3	3 + 3	3 + 3 + 3
ASL2-72CW-3W	19.00	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ASL2-84CW-3W	22.80	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ASL2-96CW-3W	22.80	-	-	2	2	2	2	2 + 2	2 + 2 + 2

# XX in part number for Color Modules denotes color code (RD= Red, BL=Blue, GR=Green)

\* XXX in part number for RGB SkyLine Flexible Border Tubing denotes length in inches. Q denotes jacket color, A denotes power lead, and B denotes end cap type. Please refer to product specifications for more information.

# 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 CVL12125-120-277	CVL3125-120-277
<b>LEDrofit (Retrofit Fluorescent Replacement)</b>									
<b>Single Sided LEDrofit</b>									
ALDF-18CW-SS	3.50	3	6	15	15	15	15	15 + 15	15 + 15 + 15
ALDF-24CW-SS	5.90	2	3	9	9	9	9	9 + 9	9 + 9 + 9
ALDF-30CW-SS	7.10	1	3	8	8	8	8	8 + 8	8 + 8 + 8
ALDF-36CW-SS	9.30	1	2	6	6	6	6	6 + 6	6 + 6 + 6
ALDF-42CW-SS	10.50	1	2	5	5	5	5	5 + 5	5 + 5 + 5
ALDF-48CW-SS	12.70	-	1	4	4	4	4	4 + 4	4 + 4 + 4
ALDF-60CW-SS	16.00	-	1	3	3	3	3	3 + 3	3 + 3 + 3
ALDF-64CW-SS	16.70	-	1	3	3	3	3	3 + 3	3 + 3 + 3
ALDF-72CW-SS	18.80	-	1	3	3	3	3	3 + 3	3 + 3 + 3
ALDF-84CW-SS	21.60	-	1	2	2	2	2	2 + 2	2 + 2 + 2
ALDF-96CW-SS	23.60	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ALDF-108CW-SS	26.30	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ALDF-117CW-SS	27.40	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ALDF-120CW-SS	29.50	-	-	2	2	2	2	2 + 2	2 + 2 + 2
<b>Double Sided LEDrofit</b>									
ALDF-18CW-DS	7.00	1	3	7	7	7	7	7 + 7	7 + 7 + 7
ALDF-24CW-DS	11.70	1	2	4	4	4	4	4 + 4	4 + 4 + 4
ALDF-30CW-DS	13.90	-	1.5	4	4	4	4	4 + 4	4 + 4 + 4
ALDF-36CW-DS	18.10	-	1	3	3	3	3	3 + 3	3 + 3 + 3
ALDF-42CW-DS	20.40	-	1	2.5	2.5	2.5	2.5	2.5 + 2.5	2.5 + 2.5 + 2.5
ALDF-48CW-DS	24.60	-	-	2	2	2	2	2 + 2	2 + 2 + 2
ALDF-60CW-DS	30.70	-	-	1.5	1.5	1.5	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5
ALDF-64CW-DS	31.90	-	-	1.5	1.5	1.5	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5
ALDF-72CW-DS	36.00	-	-	1.5	1.5	1.5	1.5	1.5 + 1.5	1.5 + 1.5 + 1.5
ALDF-84CW-DS	41.00	-	-	1	1	1	1	1 + 1	1 + 1 + 1
ALDF-96CW-DS	45.50	-	-	1	1	1	1	1 + 1	1 + 1 + 1
ALDF-108CW-DS	49.10	-	-	1	1	1	1	1 + 1	1 + 1 + 1
ALDF-117CW-DS	51.00	-	-	1	1	1	1	1 + 1	1 + 1 + 1
ALDF-120CW-DS	55.80	-	-	1	1	1	1	1 + 1	1 + 1 + 1

Note: 0.5 represents 1 pair of wires for any double sided LEDrofit.

		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-48CW-30	30.00	3	2	-	-	-	-	-	-
APS2-12CW-30	7.50	10	8	-	-	-	-	-	-
APS2-24CW-30	15.00	6	4	-	-	-	-	-	-
APS2-36CW-30	22.00	4	3	-	-	-	-	-	-
APS2-48CW-30	30.00	3	2	-	-	-	-	-	-
APS2-60CW-30	37.00	2	1	-	-	-	-	-	-
APS2-72CW-30	44.00	2	1	-	-	-	-	-	-
<b>LED T8 Lamps</b>									
ALT8-48CW-C	20.00	4	3	-	-	-	-	-	-
<b>LED SkyLine Rigid Border Tubing</b>									
ARB-98XX <sup>###</sup>	19.04	4	3	-	-	-	-	-	-
<b>RGB SkyLine Color Changing Rigid Border Tubing</b>									
ARB-74RGB	42.00	2	1	-	-	-	-	-	-
ARB-74RGB LC	-	Loading for RGB SkyLock Rigid Border Tubing varies based on color.							
<b>LED SkyLine Flexible Border Tubing (standard colors)</b>									
AFB1-XXXYY-24V S Q AB <sup>**</sup>	4.4W/ft (14.4W/m)	19' 8" (6m)	14' 9" (4.5m)	-	-	-	-	-	-

<sup>##</sup> 85% load factor recommended for combination of strips.

<sup>###</sup> XX in part number for LED SkyLine denotes color code (RD= Red, YL=Yellow, MY=Lemon Yellow, OR=Orange, CW=Cool White, BL= Blue, GR= Green).

<sup>\*\*</sup> XXX in part number for SkyLine Flexible Border Tubing denotes length in inches. YY denotes color code (RD=Red, YL=Yellow, CW=Cool White, BL=Blue, GR=GREEN). Q denotes jacket color, A denotes power lead, and B denotes end cap type. Please refer to product specifications for more information.

Note: Charts above represent loading recommendation at 90%.



# Warranty

Allanson provides a 5 year standard warranty on LED Power Supplies. For more information, please contact customer service.



## Customer Service

 [cservice@allanson.com](mailto:cservice@allanson.com)

 1.800.661.7251

 [www.allansonled.com](http://www.allansonled.com)



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