

Power Supplies

Specifications Guide



LED Power Supplies

Product Features

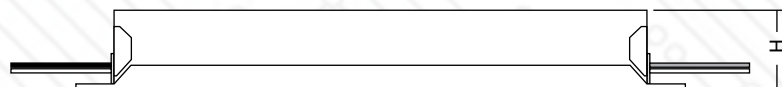
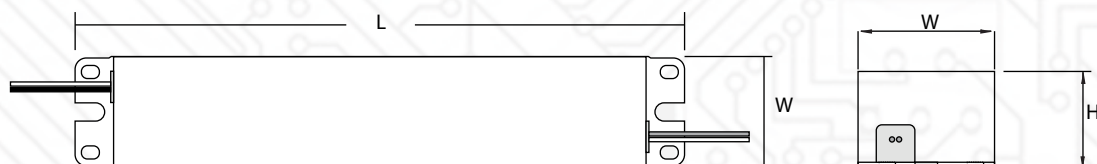
- Suitable for LED sign lighting and signage retrofit kits
- Available in 12 volt and 24 volt DC
- Available in 12W, 24W, 60W, 72W, 96W, and 2 x 60 (120W)
- Overload and short-circuit protected
- Operating temperature -40°C to 40°C (reduce loading if ambient exceeds 40°C)
- Dry, damp, and wet location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

Specifications Chart

Catalogue Number	Input Voltage	Input Current Amps	Output Volts	Output Current	Output Watts	Housing (inches)			Power Factor	Rating
						L	W	H		
12 Volts DC Output										
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**	120	0.61A	12	5.0	60	9.50	1.75	1.15	HPF	Dry & Damp
CV125-120-277V**	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	2.00	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
24 Volts DC Output										
CVW243-MV*	120-277	1.00A	24	3.3	72	10.5	2.00	1.50	HPF	Dry, Damp & Wet
CV244-120-277	120-277	1.04A	24	4.0	96	9.50	1.75	1.15	HPF	Dry & Damp

* CVW Waterproof series IP68

** BLK - Bulk Packaging includes 20 units



Wire Size Recommendation

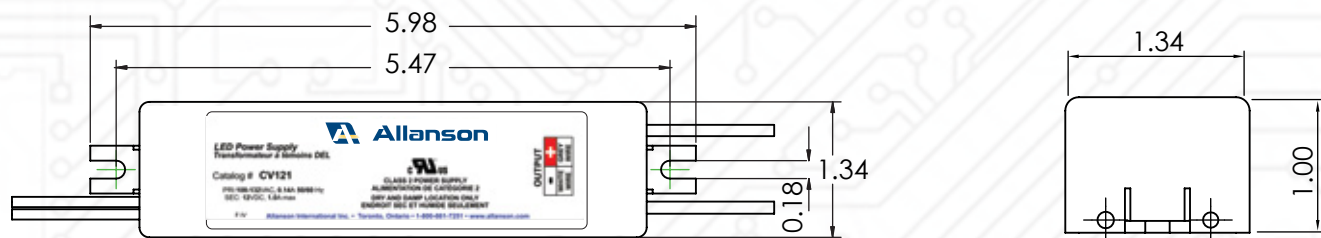
Recommended wire size from LED Module to Power Supply

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%

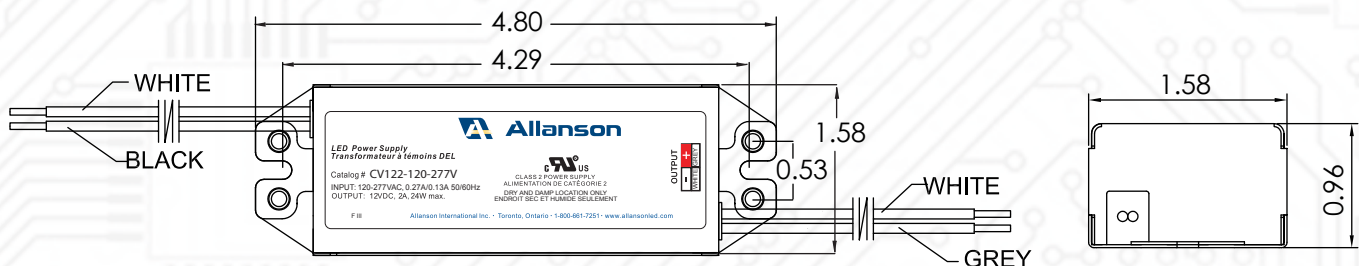
Product Dimensions

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

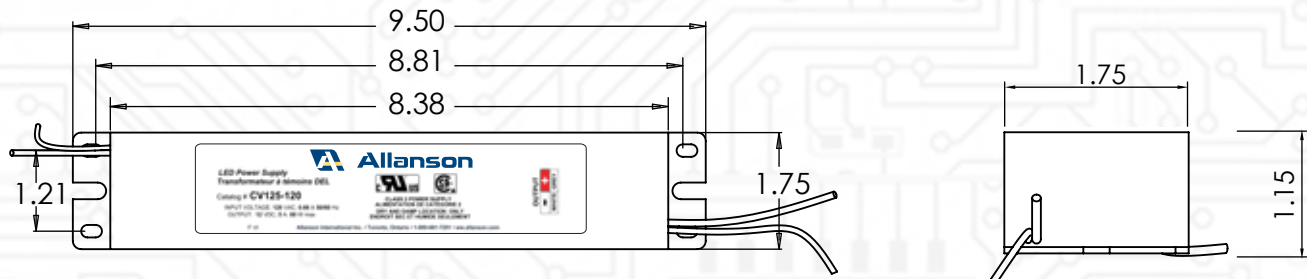
CV121



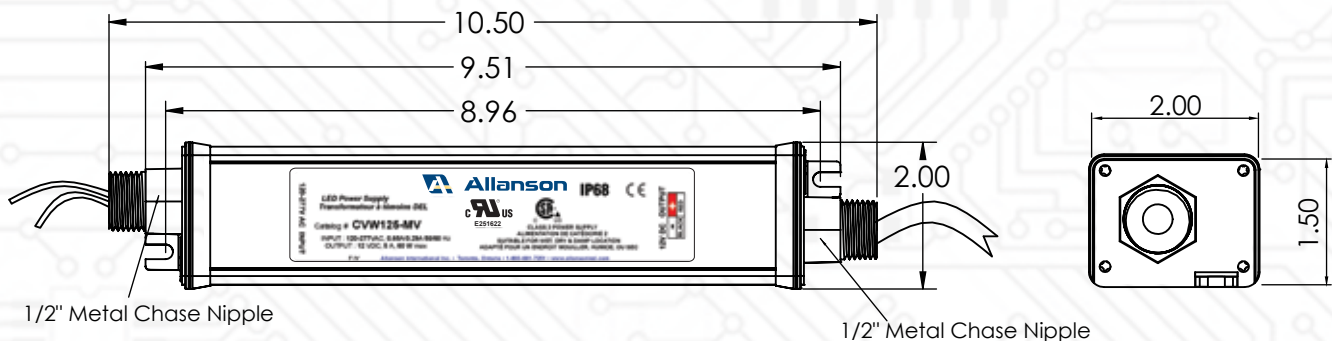
CV122-120-277V



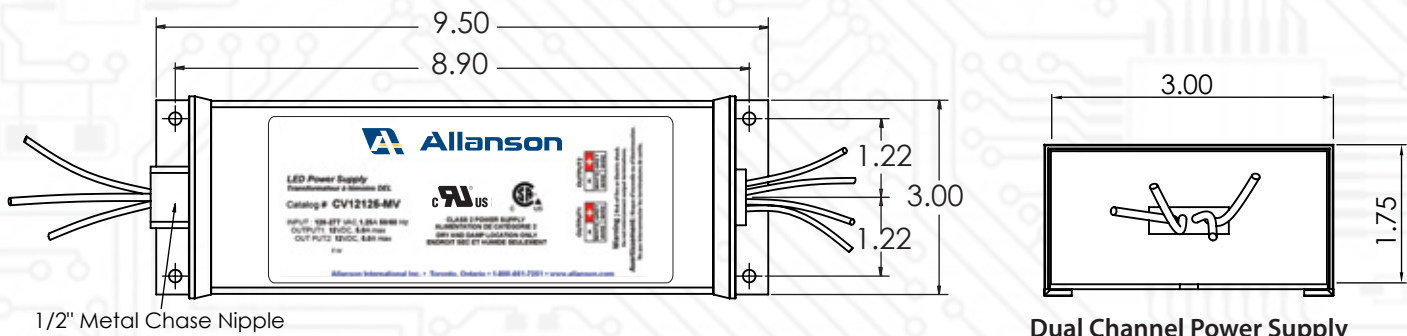
CV125 Series & CV244-120-277



CVW125-MV & CVW243-MV



CV12125-MV



Dual Channel Power Supply

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
White Modules								
S1W2CW	1.10	10	20	50	50	50	50	50 + 50
S05W2CW B	0.50	22	43	100	100	100	100	100 + 100
S07W2CW B	0.75	14	28	72	72	72	72	72 + 72
S1W2CW B	1.10	10	20	50	50	50	50	50 + 50
S1W2NW B	1.10	10	20	50	50	50	50	50 + 50
S07W2CW BLP	0.73	14	28	72	72	72	72	72+72
ACLW-CW2 100	0.48	22	45	112	112	112	112	112 + 112
ACLW-CW-1W	1.40	6	15	27	27	27	27	40 + 40
ACLW-CW-3W	3.80	3	6	14	14	14	14	14 + 14
LEDrofit (Retrofit Fluorescent Replacement)								
Single Sided LEDrofit								
ALDF-18CW-SS	3.50	3	6	15	15	15	15	15 + 15
ALDF-24CW-SS	5.90	2	3	9	9	9	9	9 + 9
ALDF-30CW-SS	7.10	1	3	8	8	8	8	8 + 8
ALDF-36CW-SS	9.30	1	2	6	6	6	6	6 + 6
ALDF-42CW-SS	10.50	1	2	5	5	5	5	5 + 5
ALDF-48CW-SS	12.70	-	1	4	4	4	4	4 + 4
ALDF-60CW-SS	16.00	-	1	3	3	3	3	3 + 3
ALDF-64CW-SS	16.70	-	1	3	3	3	3	3 + 3
ALDF-72CW-SS	18.80	-	1	3	3	3	3	3 + 3
ALDF-84CW-SS	21.60	-	1	2	2	2	2	2 + 2
ALDF-96CW-SS	23.60	-	-	2	2	2	2	2 + 2
ALDF-108CW-SS	26.30	-	-	2	2	2	2	2 + 2
ALDF-117CW-SS	27.40	-	-	2	2	2	2	2 + 2
ALDF-120CW-SS	29.50	-	-	2	2	2	2	2 + 2
Double Sided LEDrofit								
ALDF-18CW-DS	7.00	1	3	7	7	7	7	7 + 7
ALDF-24CW-DS	11.70	1	2	4	4	4	4	4 + 4
ALDF-30CW-DS	13.90	-	1.5	4	4	4	4	4 + 4
ALDF-36CW-DS	18.10	-	1	3	3	3	3	3 + 3
ALDF-42CW-DS	20.40	-	1	2.5	2.5	2.5	2.5	2.5 + 2.5
ALDF-48CW-DS	24.60	-	-	2	2	2	2	2 + 2
ALDF-60CW-DS	30.70	-	-	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
ALDF-72CW-DS	36.00	-	-	1.5	1.5	1.5	1.5	1.5 + 1.5
ALDF-84CW-DS	41.00	-	-	1	1	1	1	1 + 1
ALDF-96CW-DS	45.50	-	-	1	1	1	1	1 + 1
ALDF-108CW-DS	49.10	-	-	1	1	1	1	1 + 1
ALDF-117CW-DS	51.00	-	-	1	1	1	1	1 + 1
ALDF-120CW-DS	55.80	-	-	1	1	1	1	1 + 1

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

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
Color Modules								
S05W2RD B	0.50	22	43	108	108	108	108	108+108
S1W2RD B	1.00	10	20	50	50	50	50	50 + 50
S05W2BL B	0.50	22	43	108	108	108	108	108+108
S1W2BL B	1.00	10	20	50	50	50	50	50 + 50
ACLW-GR2 100	0.48	22	45	112	112	112	112	112 + 112
ACLW-mY2	0.60	18	36	90	90	90	90	90 + 90
ACLW-m02	0.60	18	36	90	90	90	90	90 + 90
RGB Modules								
ACLW-RGB3 25	0.72	15	30	75	75	75	75	75 + 75
ACLW-RGB AD	0.72	15	30	80	80	80	80	80 + 80
LED Slide for Cabinet Sign Lighting (Single Sided)								
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 + 2
ASL2-84CW-1W	22.40	-	-	1	1	1	1	2 + 2
ASL2-96CW-1W	25.20	-	-	1	1	1	1	2 + 2
ASL2-48CW-3W	11.40	-	-	4	4	4	4	4 + 4
ASL2-60CW-3W	15.20	-	-	3	3	3	3	3 + 3
ASL2-72CW-3W	19.00	-	-	2	2	2	2	2 + 2
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					
LED Saber for Cabinet Sign Lighting[#]								
APS-48CW-30	30.00	3	2	-	-	-	-	-
APS-60CW-30	37.00	2	1	-	-	-	-	-
APS-72CW-30	44.00	2	1	-	-	-	-	-
LED T8 Lamps								
ALT8-48CW-C	20.00	4	3	-	-	-	-	-
LED SkyLine - LED Rigid Border Tubing								
ARBT-98XX ^{##}	19.04	4	3	-	-	-	-	-
RGB SkyLine - RGB Color Changing Rigid Border Tubing								
ARBT-74RGB	42.00	2	1	-	-	-	-	-
ARBT-74RGB LC	-	Loading for RGB SkyLock Rigid Border Tubing varies based on color.						

85% load factor recommended for combination of strips.

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.

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.



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