

Power Supplies

Specifications Guide

CVW Series



LED Power Supplies

Product Description

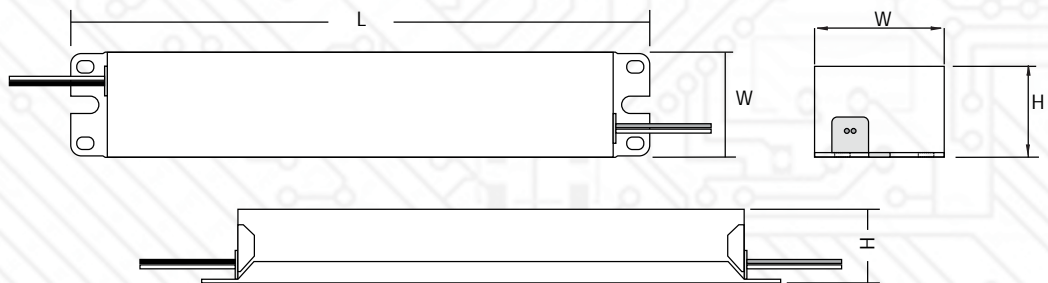
Allanson's CVW series of fixed output voltage LED power supply comes with affordable and reliable features. 12VDC & 24VDC major output voltage with 1,2, 3 multi-channel selection for different applications. CVW series meets North American safety certifications, and compliant with FCC Immunity/Emissions/Harmonic requirements. The CVW power supplies are rated IP68, designed and rigorously tested to work in various outdoor and indoor applications.

Product Features

- Constant voltage design
- Universal input voltage from 120-277 VAC
- Multi-channel output and independent operating
- Class 2 output
- Dry, damp, & wet location IP68 rated
- Operating temperature range -40°C to +40°C

Specifications Chart

	Catalogue Number	Input Voltage	Input Current Amps	Output Volts DC	Output Current	Output Watts	Housing (inches)			Power Factor	Rating
							L	W	H		
12V	CVW125-120-277V	120-277	0.70A-0.30A	12	5.0	60	9.54	1.54	1.16	HPF	Dry, Damp, & Wet
	CVW2125-120-277V	120-277	1.40A-0.60A	12	2 x 5.0	120	9.22	2.68	1.34	HPF	Dry, Damp, & Wet
	CVW3125-120-277V	120-277	1.15A-0.50A	12	3 x 5.0	180	11.70	2.68	1.52	HPF	Dry, Damp, & Wet
24V	CVW244-120-277V	120-277	0.95A-0.40A	24	4.0	96	9.59	1.81	1.25	HPF	Dry, Damp, & Wet
	CVW2244-120-277V	120-277	2.23A-0.99A	24	2 x 4.0	192	9.22	2.68	1.52	HPF	Dry, Damp, & Wet
	CVW3244-120-277V	120-277	3.35A-1.51A	24	3 x 4.0	288	12.96	2.68	1.52	HPF	Dry, Damp, & Wet



Wire Size Recommendation

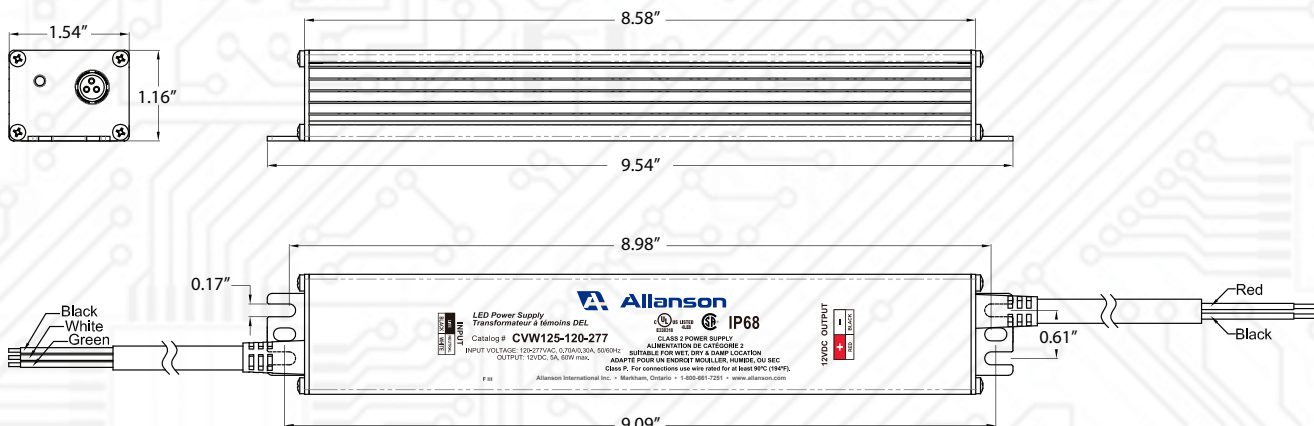
Recommended wire size from LED Module to Power Supply

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%

12V Product Dimensions

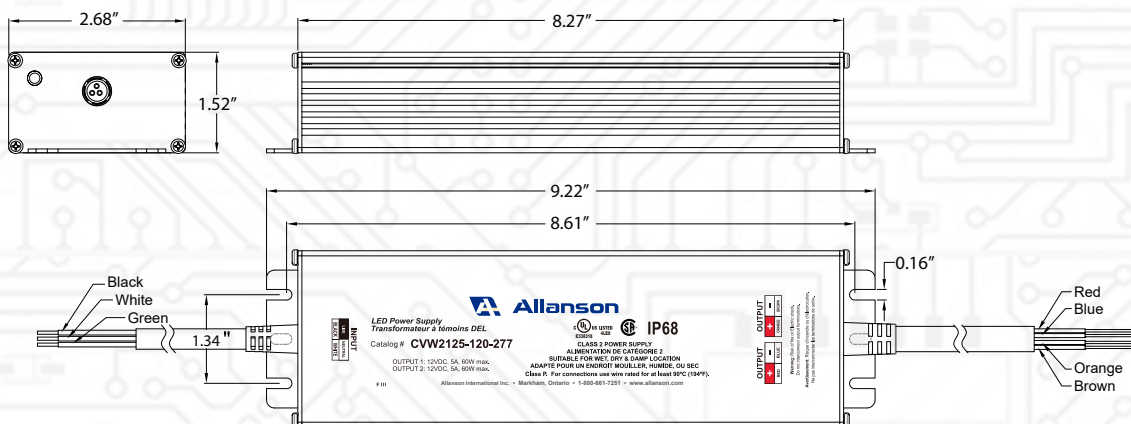
All dimensions are in inches. Drawings are not to scale.

CVW125-120-277V*



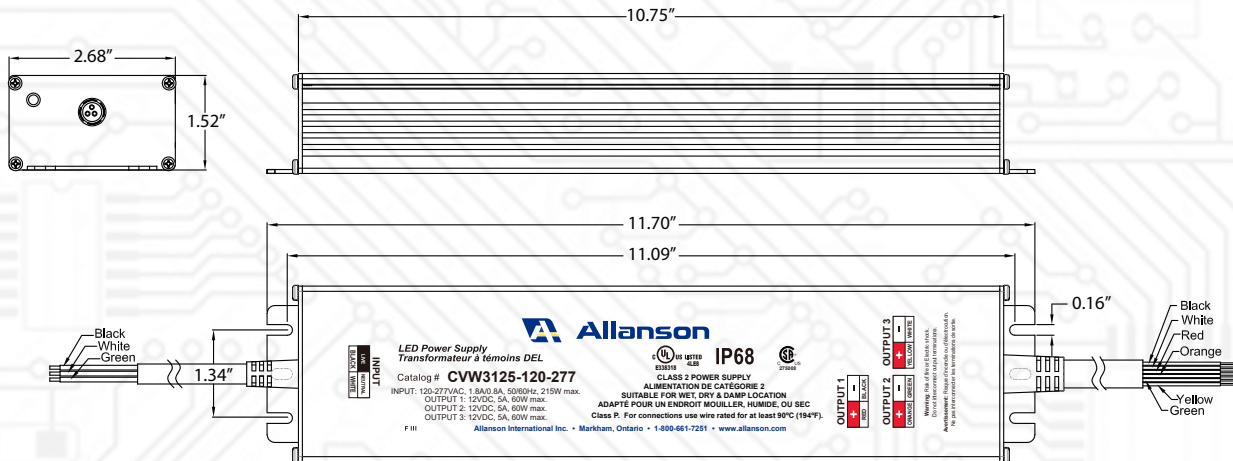
Output 1 wires should be connected as below:
Output 1 Connection: Red to Positive (+), Black to Negative (-)

CVW2125-120-277V*



Output 1 and Output 2 wires should be connected as below:
Output 1 Connection: Red to Positive (+), Blue to Negative (-)
Output 2 Connection: Orange to Positive (+), Brown to Negative (-)

CVW3125-120-277V*



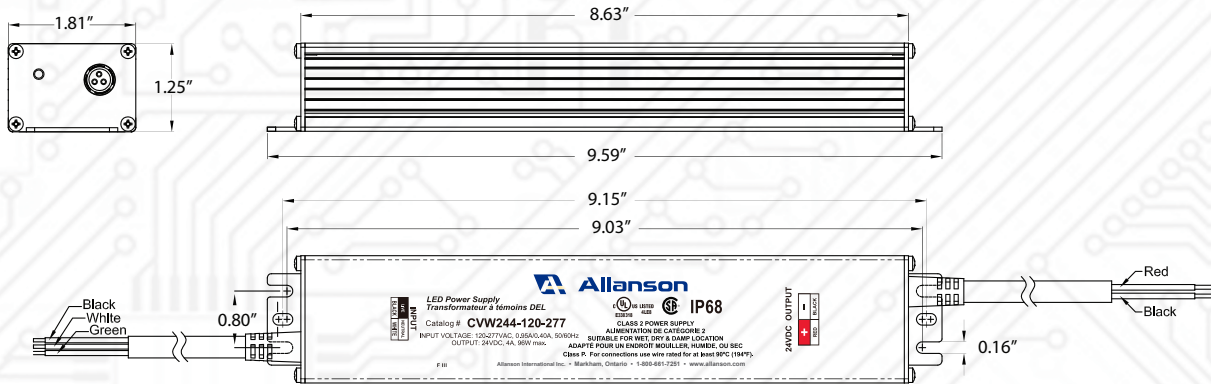
Output 1, Output 2 and Output 3 wires should be connected as below:
Output 1 Connection: Red to Positive (+), Black to Negative (-)
Output 2 Connection: Orange to Positive (+), Green to Negative (-)
Output 3 Connection: Yellow to Positive (+), White to Negative (-)

Warning : Do not interconnect output terminations.

24V Product Dimensions

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

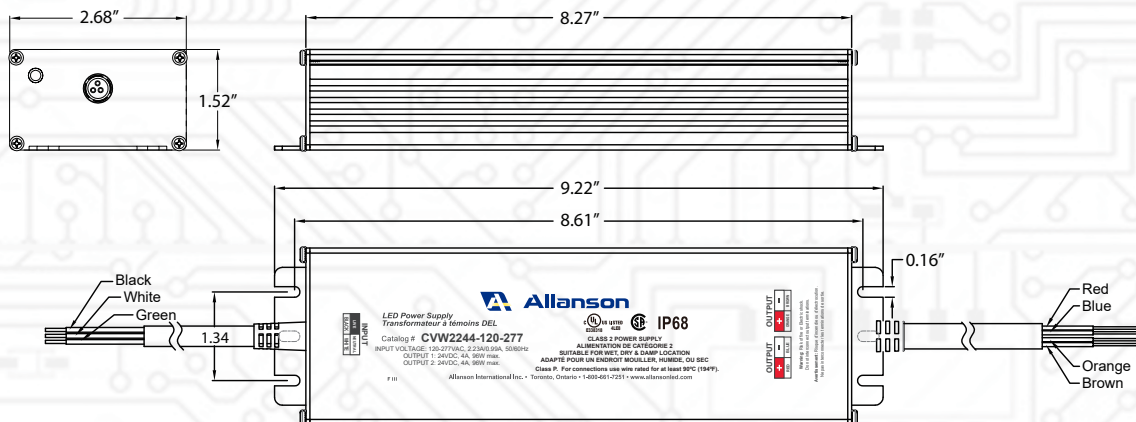
CVW244-120-277V*



Output 1 wires should be connected as below:

Output 1 Connection: Red to Positive (+), Black to Negative (-)

CVW2244-120-277V*

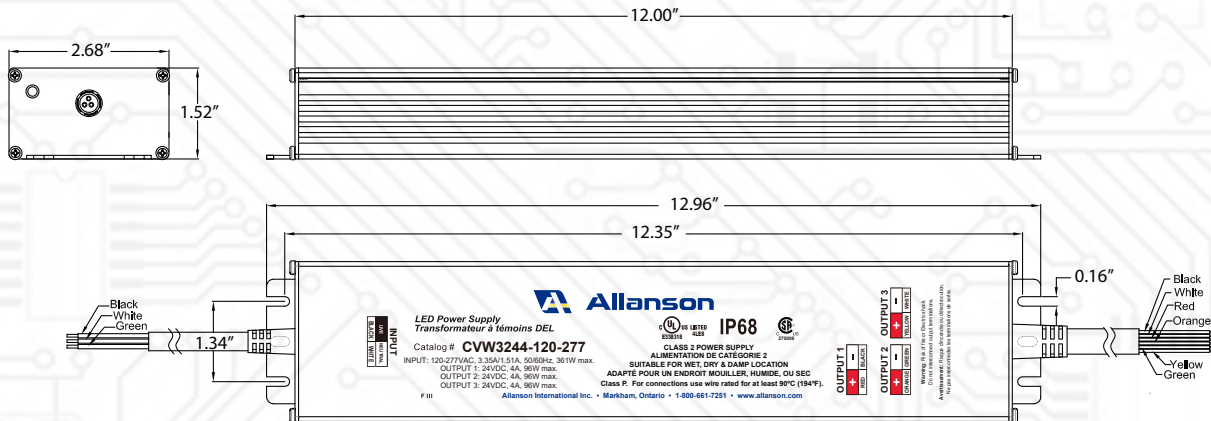


Output 1 and Output 2 wires should be connected as below:

Output 1 Connection: Red to Positive (+), Blue to Negative (-)

Output 2 Connection: Orange to Positive (+), Brown to Negative (-)

CVW3244-120-277V*



Output 1, Output 2 and Output 3 wires should be connected as below:

Output 1 Connection: Red to Positive (+), Black to Negative (-)

Output 2 Connection: Orange to Positive (+), Green to Negative (-)

Output 3 Connection: Yellow to Positive (+), White to Negative (-)

***Warning:** Do not interconnect output terminations.

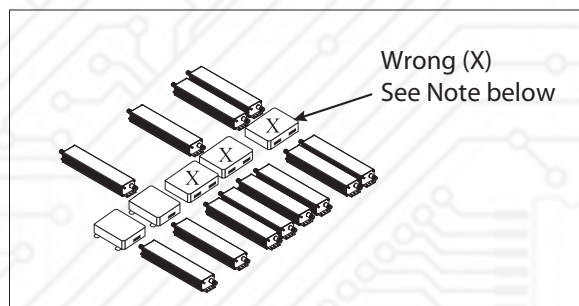
Installation Instructions

For wet location:

Wet Location

Sample Configurations

Note: Power supplies shall be spaced a minimum of 2 inches from other heat producing components. If multiple power supplies are used in one enclosure, the minimum spacing between them shall not be less than 1 inch when arranged end-to-end, and not less than 4 inches when arranged otherwise.

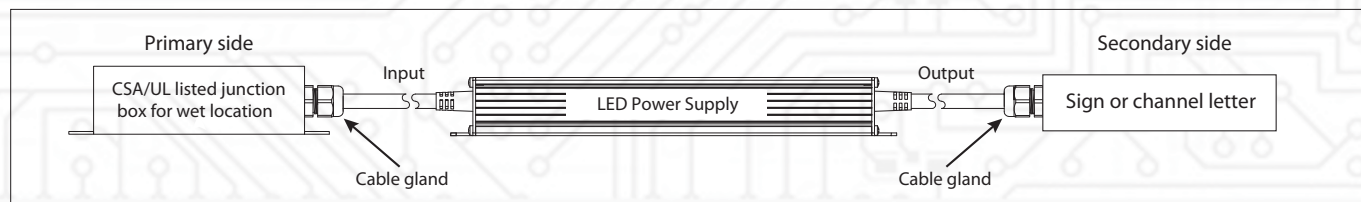


Primary Side

- Step 1 - Feed the input cord through the ½" NPT cable gland included in the package.
- Step 2 - Pull the input cord into the junction box.
- Step 3 - Thread the PS ½" NPT cable gland firmly against the junction box, apply Teflon tape or Multi Thread Seal if necessary.
- Step 4 - Connect the three primary wires to the respective wires coming from the sign's service with wire nuts.
- Step 5 - Plug all unused ports/knockouts on the junction box with suitable plugs and install the junction box cover.

Please see below for connections:

Both Primary (input) and Secondary (output) cords are 21 inches long.



Secondary Side

- Connect sign or channel letter in the same way as the primary side, use included cable gland.
- Cap off any unused output leads individually.
- Seal all wall penetration with silicone to avoid water damage.

Troubleshooting

No Light output	Make sure power at breaker is ON. Make sure connections are correct between line and power supply, and between power supply and LED chain. Check output of the power supply using a voltmeter. The output should be 12VDC & 24VDC. Have a licensed electrician check the power at the input of the power supply. Short circuit at the output will shut down the unit.
Sections of LED module does not light up	Check connections and polarity between power supply and LED module, connectors and polarity between LED modules.
One LED Module does not light up	If all other LED modules are working except one, replace this one module. The modules are in parallel and will not cause other modules to fail if one fails.
Not enough light output Light turns off and on periodically	Make sure the LED load does not exceed the output rating of the LED power supply. Fasten any loose modules or arrays.
Shadows	Tape any wires down that are interfering with the LED modules. Fasten any loose modules.
Unit attempts to restart	In fault condition mode, the power supply will attempt to restart periodically and resume normal operation after fault condition is removed.

Skyline
LED Rigid Border Tubing

Allanson



Scan for Rigid Border Tube Brochure & Specs

Skyline
Flexible Border Tube

Quality LED Solution that Bends into Shape

Capture the vibrant colors and slim profile of neon with Allanson's new Skyline LED Flexible Border Tubing. With greater flexibility to conform to numerous contours and desired shapes, Skyline LED Flexible Border Tubes allow for easy installation onto any application.

RGB COLOR CHANGING OPTIONS AVAILABLE

Tried | Trusted | True

ColorMix
Lighting Solutions

Allanson



Scan for Flexible Border Tube Brochure & Specs

SPEEDLamp

LED Sign Solution

Quality lamp installation with SPEED

Designed to get you in and out, SpeedLamp delivers uniform light and energy savings you can count on.

Tried | Trusted | True

Allanson



Scan for SpeedLamp Brochure & Specs

Sign Lighting Solutions

ColorMix
Lighting Solutions

Color Changing & Animating Lighting Solutions

Allanson

ColorMix color changing and animating lighting solutions is your solution for creating dynamic brand impact, transforming environments, and creating new opportunities.



Scan for ColorMix Brochure

Tried | Trusted | True

Vibrant Image. Illuminated by LEDdrofit.

Discerning sign owners demand true, vibrant, and reliable delivery of their brand image. That's why Denny's recently selected LEDdrofit to illuminate their signs so that the Denny's brand can look as it was originally intended.

Inspired by a desire to create a better blend of light for sign customers, LEDdrofit's unique construction generates a "bow-tie" illumination pattern that distributes light in a highly uniform pattern. And it's brighter than a leading competitor.

LEDdrofit
Light Engine
Optimal Light - Vibrant Image

Allanson



Scan for LEDdrofit Brochure & Specs

Allanson

LED Sign Lighting

LEDgen2
Lighting Solutions

Populating Channel Letters and Cabinet Sign Boxes just got more exciting with introduction of our NEW Low Profile, Mini, and Micro Mini Modules to the LEDgen2 family of LED solutions!

- Balanced and uniform illumination
- Fast and easy installation
- Excellent module efficacy
- Fewer modules required for lower installation cost
- Consistent color
- RoHS compliant
- UL recognized

Products can be used in dry/damp and wet locations (Not suitable for submerged applications) IP67

Available in the following options:

- White (5000K) 1.5W
- Red, Orange 0.5W and 1W
- Low Profile (BLP) 1W
- Mini Modules White 1W
- Micro Mini Modules

Allanson



Scan for LED Modules Specs

Allanson

LED Saber2
Powerful Linear Beam Lighting

Next Generation

Allanson's new LED Saber2, designed for further light projection, provides greater surface area coverage with maximum brightness and uniform light distribution for optimal results.

Lighting Applications

Down lighting for:

- Awards
- Bus Shelters
- Toll Stations
- Railway Platforms
- Schools
- Airports
- Sign Boxes
- Aid Cans
- Menu Boards

Gas Stations
Convenience Stores
Counters

Allanson



Scan for LED Saber2 & Solar Saber Specs

Warranty

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

Customer Service

✉ cservice@allanson.com

☎ 1.800.661.7251

🌐 www.allanson.com



Information provided is subject to change without notice.