

**INSTALLATION INSTRUCTIONS FOR
CLASS 2, 24VOLTS ELECTRONIC LED POWER SUPPLY
INDOOR AND OUTDOOR DRY AND DAMP USE**
⚠ WARNING

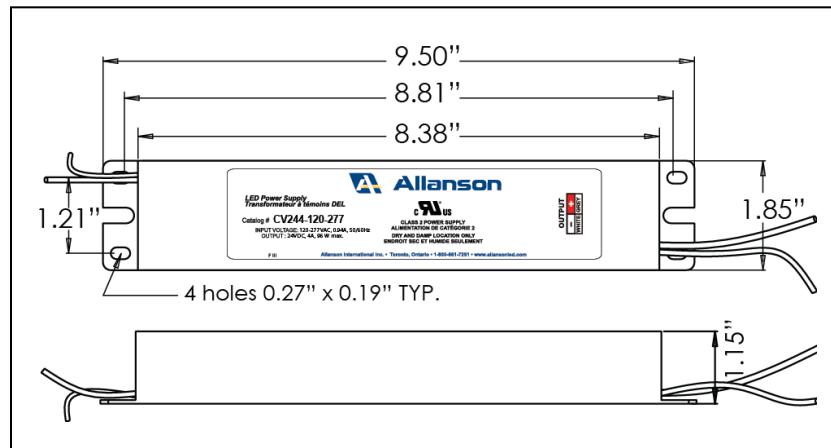
To avoid electrical shock or fire: Disconnect power at service panel prior to installation, troubleshooting or maintenance.

Always follow NEC and local wiring requirements. Properly ground power supply and fixture. Do not connect output of power supplies in series or parallel.

Thanks for purchasing Allanson's LED Power Supply. Should you have questions or concerns please do not hesitate to contact us. Please read all installation instructions before installing this system.

SPECIFICATIONS

Part #	CV244-120-277
Input Voltage	120-277VAC
Input Frequency	50/60Hz
Input Current @ Rated Load	0.94A rms
Power Factor	HPF>90%
Output Voltage	24Vdc +/-5%
Output Current	4A
Size (LxWxH)	9.50"x1.85"x1.15"
Max Ambient Operating Temperature	40° C
Certification	UL recognized


INSTALLATION AND OPERATION

Firmly secure the case to the application with proper size screws.

If the power supply is mounted on metal surface, make sure it is grounded to the metal frame. All metal parts of the individual channel letter and the sign frame must be grounded to the point of power connection in accordance with local electrical codes and other ordinances.

Wire the power supply to a standard three-wire grounded power source.

Use output leads #18 AWG or heavier to wire the LED modules. For best results, keep the leads as short as possible. The recommended length between the output of the power supply and first LED module should be less or equal to 12 feet using 18 AWG (expected 5% voltage drop).

If you need to extend the distance between the power supply to the LED modules, please increase the wire gauge to minimize the voltage drop to the modules. A reduction in voltage to the modules will cause a proportional reduction in light output. The table attached is only a guide.

Distance to Power Supply	Standard Copper Wire Gauge	Expected Voltage Drop
13 ft.	16 AWG	5%
20 ft.	14 AWG	5%
30 ft.	12 AWG	5%

Firmly secure the LED modules to a flat metal surface.

Attach the positive lead wire of the LED module to the positive (+) terminal of the power supply. Attach the negative terminal of the LED module to the negative (-) terminal of the power supply.

Do not overload the unit. Follow each system's specification for correct loading.

The power supply and the LED modules generate heat during normal operation and it is necessary to allow heat to dissipate. It is recommended they are mounted with as much of their surface in direct contact with other metal surfaces as possible. Letters should be well ventilated.

TROUBLE-SHOOTING TIPS

The LED power supply has built-in thermal and output short circuit protection with auto-restart feature. A short circuit at the output will shut down the unit. In fault condition mode, the supply will attempt to restart periodically and once the fault condition disappears, it will resume normal operation. Overload operation normally results in thermal shutdown. The power supply and the LED modules will go OFF and ON periodically. Reduce the load (length of the strip) so that the output current does not exceed maximum rating. See listing in installation and operating instructions.