

# CVE 24V Class 2 dimming series - Installation Instructions

## Models CVE-XX-24, CVE-XX2D-24, CVE-XX3D-24, & CVE-XX4D-24



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**Please read all instructions prior to installation and keep for future reference!**

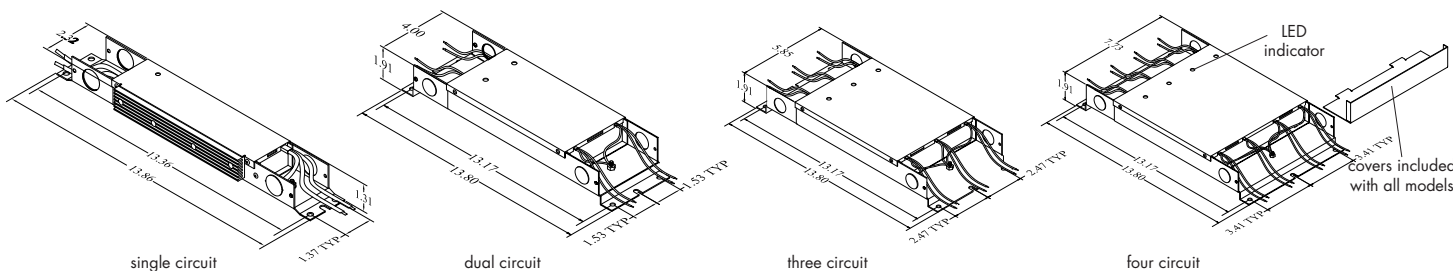
This power supply is to be installed by a qualified electrician in accordance with the National Electrical Code (NEC) and local building codes. The power supply must be installed in a well ventilated area and free from explosive gases and vapors. Proper operation requires the free flow of air. Power supply is well suited for any LED load at or below their maximum output rating per circuit.



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		48W models	96W models
<b>Input</b>	Voltage / Frequency	90 - 130VAC, 60Hz or 200 - 277VAC, 50/60Hz	90 - 130VAC, 60Hz or 200 - 277VAC, 50/60Hz
	AC Current	0.44A @ 120VAC, or 48W, 0.22A @ 240/277VAC, per Single circuit	0.88A @ 120VAC, or 96W, 0.44A @ 240/277VAC, per Single circuit
	Inrush current (Typ.)	<1mA @ 120 or 240/277 VAC input	<1mA @ 120 or 240/277 VAC input
	Leakage current	<1mA @ 240/277VAC	<1mA @ 240/277VAC
<b>Output</b>	Efficiency (Typ.)	85%	85%
	Output Amps	48W, 2.0A per circuit	96W, 4.0A per circuit
<b>Protection</b>	Short Circuit	Output shut down, automatic restart	Output shut down, automatic restart
	Over Temperature	Output limiting internal NTC over temperature protection circuit	Output limiting internal NTC over temperature protection circuit
<b>Environment</b>	Working temp.	Nominal -20 to +50C ambient @ full load	Nominal -20 to +50C ambient @ full load
	Ingress protection	Damp location	Damp location

**\*Do not interconnect output circuits**



**1**

**Before installing,** check the label and ensure the power supply has the proper input voltage, output voltage, and wattage for the job. Check the wire markings to ensure they match the wiring diagram below. Refer to table above for the maximum loads supported by each power supply.

**2**

24" MIN

This power supply may be mounted in any orientation with a minimum of 12" above deck or ground level, 24" below ceiling. No spacing between adjacent power supplies or surfaces is required as mounted.

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**3 INPUT:** Remove the wiring compartment cover and knockouts. With power off, route the input wires through knockout and connect LOAD to black wire and NEUTRAL to white wire. For all wire connections use only listed wire nuts and connectors of suitable size and type.

use Luminii voltage drop calculator (<http://www.luminii.com/tools>) to calculate wire gage for low-voltage connection

use No 12-22 AWG Cu wires for line voltage connection

LED indicator:  
green light = stable  
amber light = overload  
red light = short

24 VDC

LINE VOLTAGE  
120, 240/277 VAC,  
depends on  
model ordered.

**OUTPUT:** Connect the positive to the red wire and negative to the black wire. Reference LED indicator, for a stable load.

**4**

dimmer

Line LED  
24 VDC

LINE VOLTAGE  
120, 240/277 VAC,  
depends on  
model ordered.

This power supply can be dimmed by low voltage dimmers designed for electronic loads. Refer to Luminii website for a list of compatible dimmers.

### CLASS 2 POWER UNIT MODELS: CVE-XX-24-XXX

## MOUNTING AND INSTALLATION INSTRUCTIONS

**WARNING:** The transformers and power supplies specified here must be installed by a qualified electrician in accordance with the National Electrical Code (NEC) and local building codes. Failure to do so will void the warranty and may result in serious injury and/or permanent damage to the unit.

1. This unit must be located 12" or greater above the deck or ground level.
2. Measure the mounting point distance for the power supply mounting bracket.
3. Mark the mounting bracket to the surface and drill a minimum of 2 holes to match the bracket holes centers.
4. Refer to the product labeling for detailed line and load wiring procedure.
  - A. For connection, Use NO 12-22 AWG Cu wires insulated for a minimum of 90C, rated for 600V.
  - B. Use wire connectors suitable for the number and size conductors being connected being connected and applied in accordance with the connector manufacture's instructions.
  - C. Minimum 20 amp supply side branch circuit.
  - D. A disconnect device shall be located in the field wiring.

## IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic precautions should be practiced including the following:

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Read and follow all instructions that are on the product or provided with the product.
3. Reference the National code, ANSI/NFPA 70, specifically for the installation of wiring and clearances from power and lighting conductors.
4. Installation work and electrical wiring must be done by qualified person in accordance with all applicable codes and standards, including fire rated construction.
5. **WARNING:** Risk of fire. Installation involves special wiring methods to run through building structure. Consult a qualified electrician.
6. **WARNING:** Risk of Electrical Shock. Mount the unit at a greater height than 1 foot from the ground surface.

**SAVE THESE INSTRUCTIONS** - This insert contains important safety and operating instructions for power units.