Project		Location	
Contact		Date	
Part#		Fixture	

Cence 5 in 1 Dimming Driver

24V DC Class 2 96W Driver

Description

A versatile power supply capable of dimmable output allowing you to control your light level and ambience. It provides constant voltage power for a wide range of lighting applications

Applications

- Backlit Stone
- Backlit Graphics
- Backlighting
- Large Formats

5 YEAR WARRANTY · IP65 · FC · TITLE 24 · c UL US LISTED

0.1–100% Dimming Range

Suitable for Wet Locations

Easy Installation

Key Features

- Constant Voltage type, fine tune of output voltage
- Triac/0-10V/1-10V/10V PWM/Poteniometer dimming options
- PF>0.95, dimming range: 0.1-100%, flicker-free
- Triac Dim Mode: forward phase/reverse phase/ MLV/ ELV
- Short-circuit, over-temperature, over-load protection
- Flat, side mounting, vertical mounting installation
- High quality aluminum housing for dry, damp, wet location

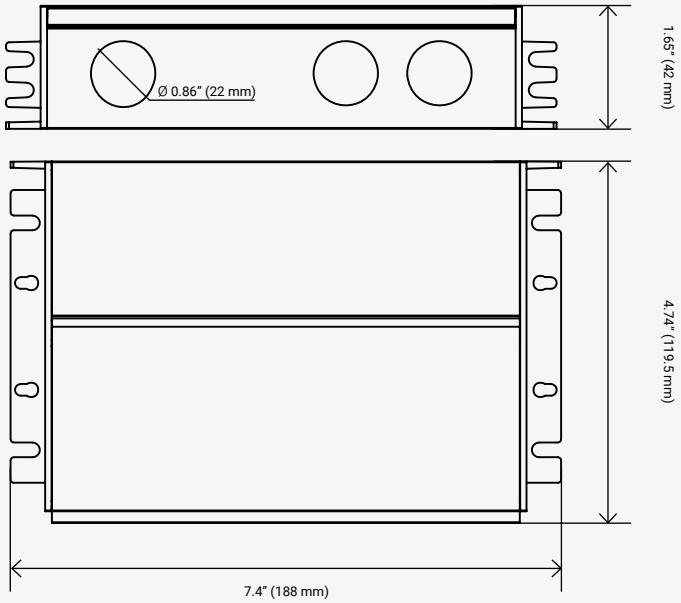
Specifications

Part Number	#951011-24-096
Output	
DC Voltage	24V DC
Rated Current	4.00A
Rated Power	96W
Voltage Tolerance	± 0.50V
Voltage Regulation	± 0.50%
Load Regulation	± 1%
Input	
Voltage Range	100 – 277V AC
Frequency Range	47 – 63Hz
Power Factor	0.99 @ 120V AC | 0.98 @ 277V AC
Typical THD *	< 15% @ 100% load
Typical Efficiency *	89%@120VAC | 90%@277VAC
Typical AC Current	1.02A
Typical Inrush Current	25A
Leakage Current	< 0.50mA
Protection	
Short Circuit	Hiccup mode (recovers automatically after fault condition is removed)
Overload	Intelligently reduce the output voltage | Auto-recovery (re-power on to recovery)
Overheating	100°C ± 10°C shut down o/p voltage automatically and recover after cooling
Environment	
Working Temp./ Humidity	-40°C – +60°C (Please refer to "OUTPUTLOAD vs TEMPERATURE" section) | 20 ~ 95% RH, non-condensing
Storage Temp./Humidity	-40°C – +90°C (-40°F – +194°F) | 10 ~ 95% RH
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes
Temp. Coefficient	± 0.03% / °C (0°C ~ 50°C)
Safety & EMC	
Safety Certifications	UL8750 | CAN/CSA–C22.2 No. 250.13 | Class 2
Withstand Voltage	I/P–O/P: 1.88KVAC
Isolation Resistance	I/P–O/P: 100MΩ / 500V DC / 25°C / 70% RH
EMC Emission	FCC Part 15 Subpart B

** Measured at full load*

Overview

Product Dimensions

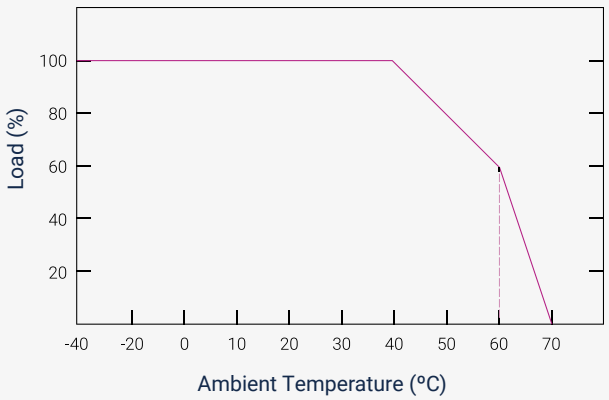


Wire Specification

Input			Output		0/1 – 10V Dimming		
Function	**Color**	**Spec.**	**Function**	**Color**	**Function**	**Color**	**Spec.**
AC L	Black	18 AWG	DC +	Red	Dim +	Purple	18 AWG
AC N	White	18 AWG	DC –	Black	Dim –	Pink	18 AWG
GND	Green	18 AWG	-	-	-	-	-

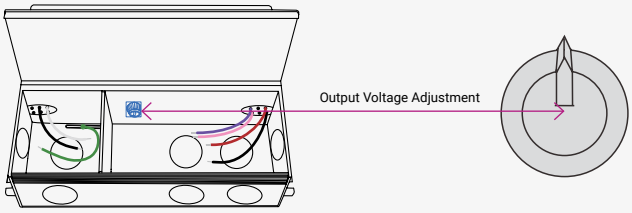
Please DO NOT connect "DIM-" to "LED- ", "DIM+" to " LED+", or other incorrect connection.
Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

Derating Curve



To extend their life, please refer to the derating Curve and de-rate according to the temperature.

Voltage Fine-Tuning

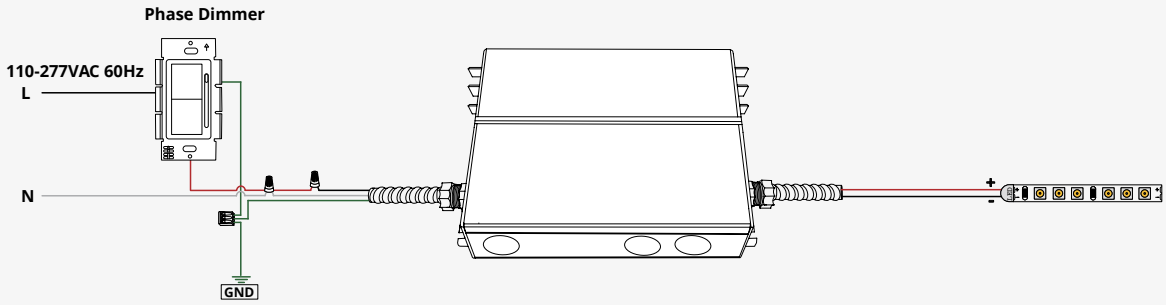


Fine Tuning the Output Voltage:

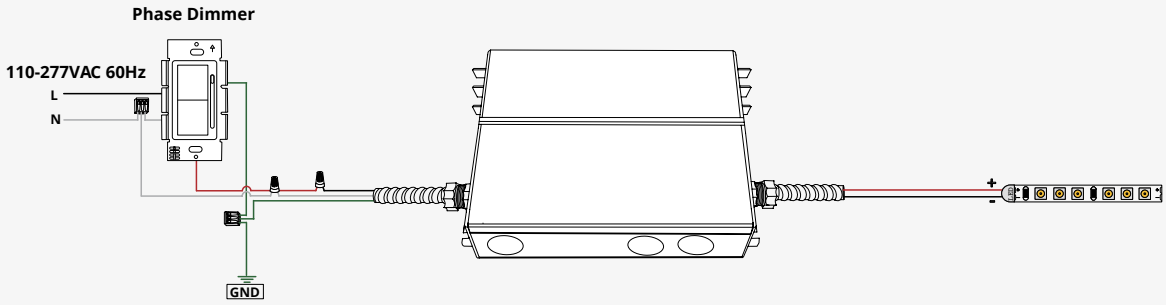
Type	Output
24V	17V – 25V

Wiring Diagram

MLV TRIAC (Leading Edge) Dimmer Wiring Diagram



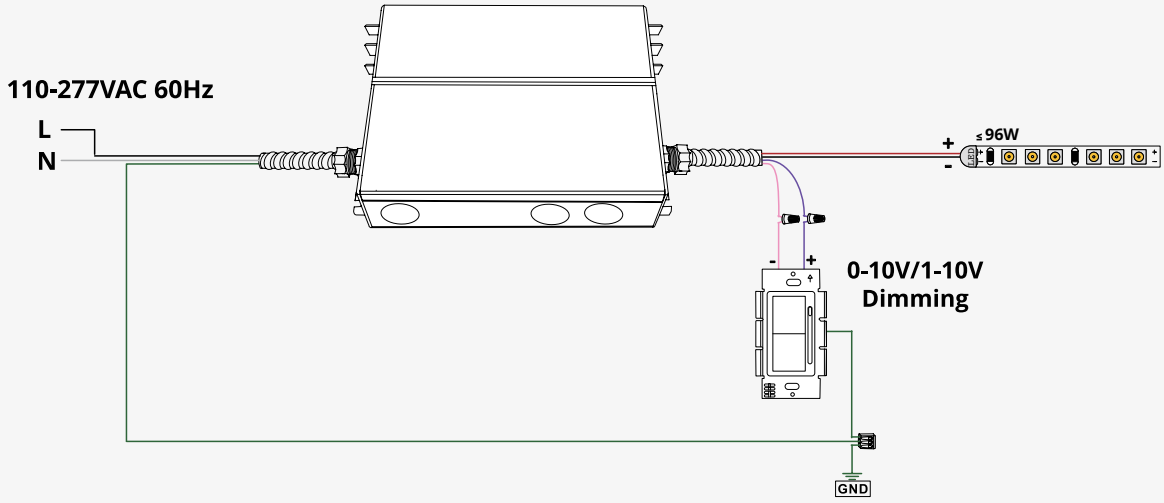
Electronic Low Voltage (ELV) Dimmer Wiring Diagram



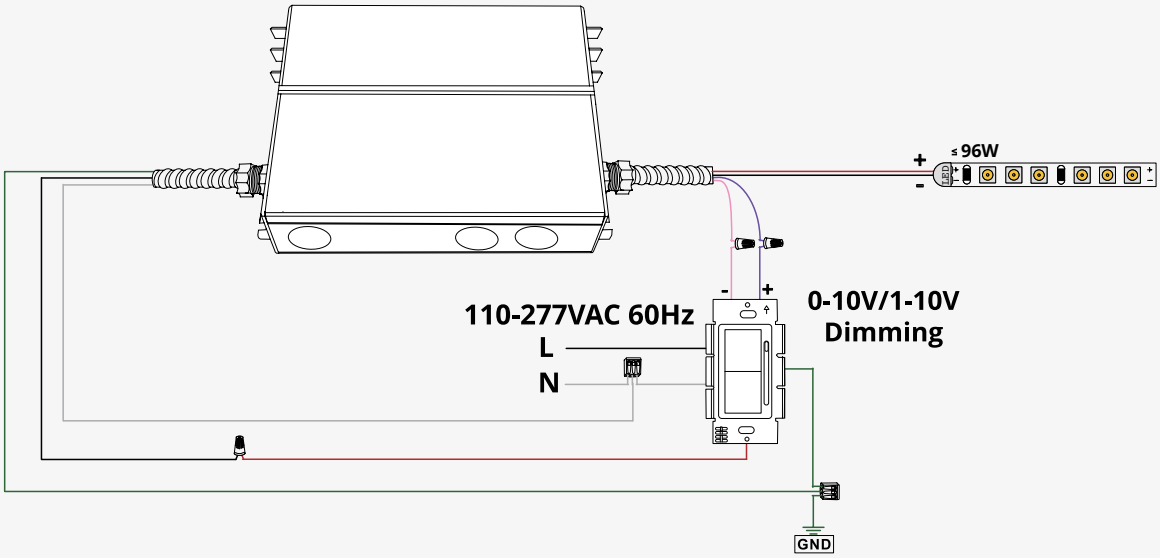
Wiring Diagram

0–10V / 1–10V Dimmer Wiring Options

Option 1: Driver is independently connected to the Input



Option 2: Driver Input is connected to the Dimmer



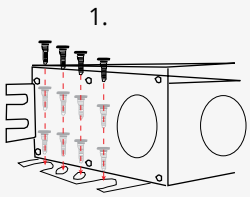
Installation

Before you Start

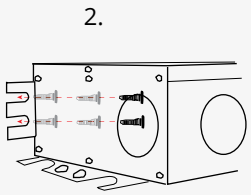
1. This driver should be installed by qualified, licensed electrician.
2. Please make sure the driver is installed with proper ventillation to allow heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If the driver does not work, please don't disassemble, modify or repair the driver.
5. In case of any problems, please contact Omnify Support.

Mounting

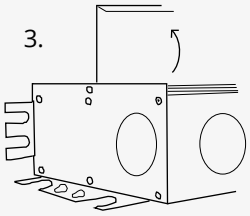
1. This driver must be installed in a well-ventilated area free from explosive gases and vapors. Airculation is essential for heat dissipation.
2. Recommended spacing between LED drivers should be a miminum of 4" (100mm).
3. Do not mount driver close to or above objects that can radiate heat. Vertical mounting is highly recommended.
4. Select an appropriate location that is able to support the weight of the product.
5. Use the mounting tabs on the left and right side of the driver to mount the product.



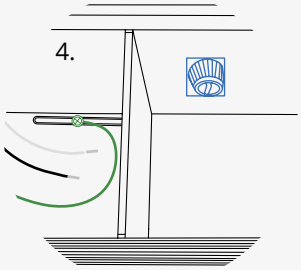
Vertical Mounting



Horizontal Mounting

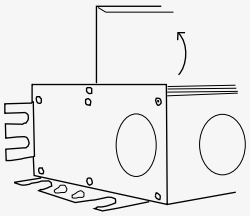


Rotary flap without screws

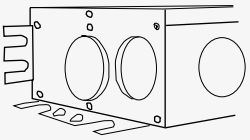


Mobile baffle, strong and weak electric isolation, flexible adjustment of strong and weak electric space size

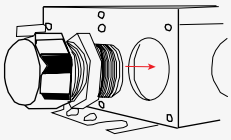
Connection Preparation



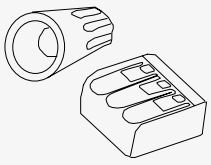
Open face cover



Remove the desired knockouts for both input and output



Use the appropriate sized wire gauge and connectors. (Not included)

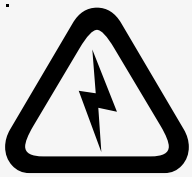


Only use certified components in accordance with national and local electric codes

Installation

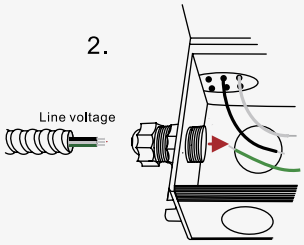
Input Connections & Grounding

1.



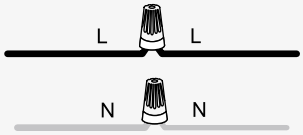
Ensure power is disconnected at the source

2.



Route line voltage input wires and ground wire through strain relief and knockout

3.



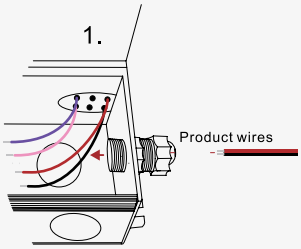
Connect black input wire (L) and input wire (N) to line voltage

4.

Connect green wire (ground) to input ground wire

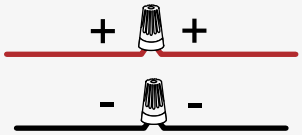
Output Connections

1.



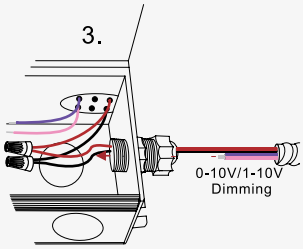
Route low voltage product wires through strain relief and knockout

2.



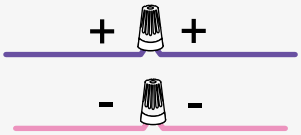
Securely connect driver's black wire(-) and red wire(+) to low voltage product, matching polarity

3.



If available, route 0-10V/ 1-10V dimming wires through strain relief and knockout

4.



Connect pink wire (-) and purple wire (+) to dimmer, matching polarity. Secure wire compartment cover when completed