

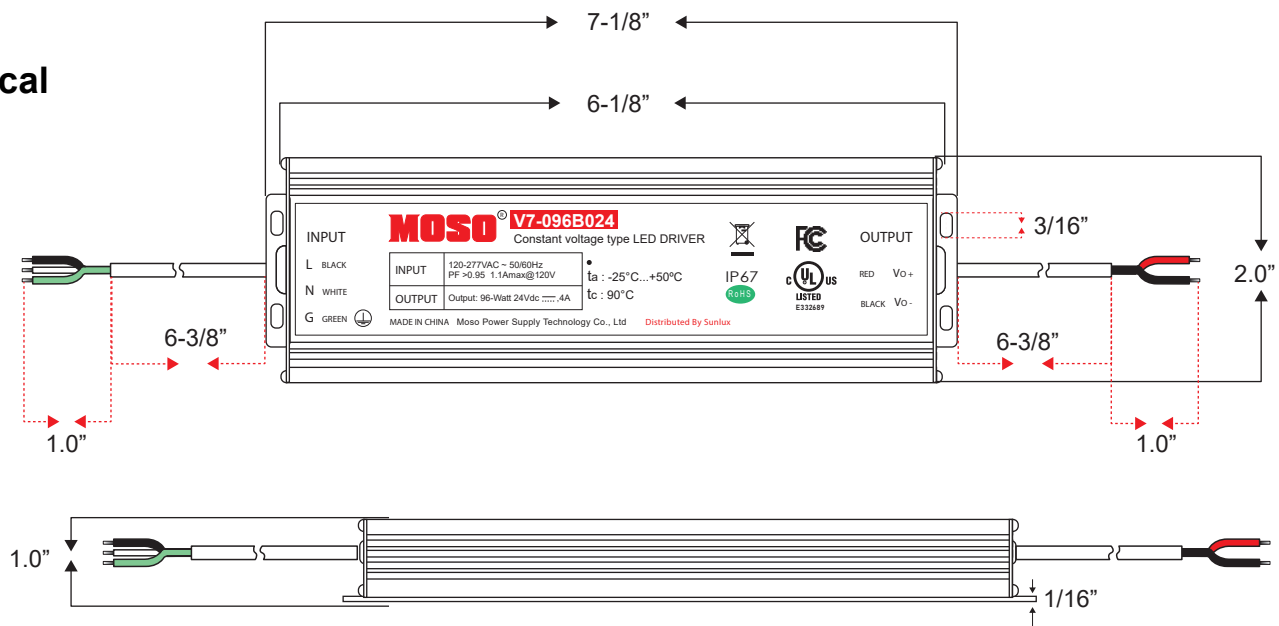
Characteristics



Constant Voltage Design (C.V. mode)

- AC Input automatic voltage selection: 110-277Vac (60/50Hz)
- Protections: Overload / Over Voltage / Short Circuit / Over Temperature
- IP67 Design for outdoor installations; dry, damp and wet locations
- Suitable for LED lighting and moving sign applications
- Surge immunity: Line-Line 5KV, Line-Earth 10KV
- High power factor > 0.90 (305Vac & Full load)
- Metal case
- Class P power unit
- Standard Safety standards: UL8750 recognized U.S and Canada certified
- EMC standards: FCC Part 15 // UL Listed: E332689
- 5-Year Limited Warranty: subject to terms and conditions; see full warranty policy for details. (Page 5)

Physical



Dimension : 7.0" x 1.96" x 1.06" (LxWxH)

Weight : 1Lb 10oz

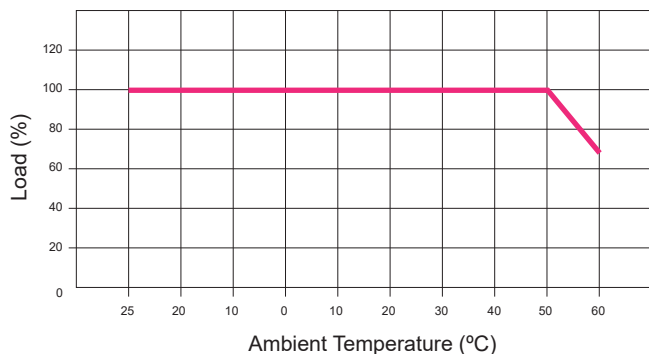


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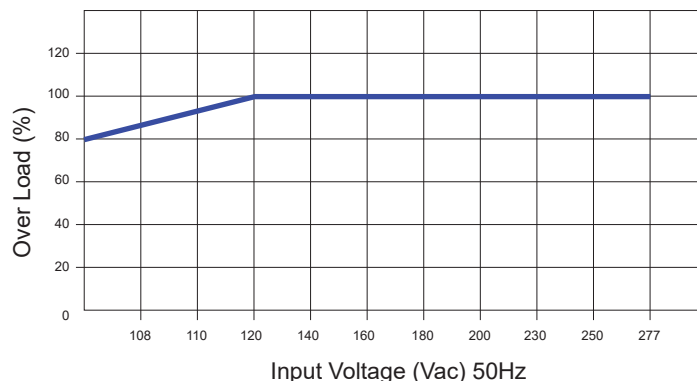
Technical Details

Model	V7-096B024	
INPUT	Efficiency	86%@230VAC Full load
	Voltage	120-277VAC
	Frequency	50/60HZ
	Power Factor (PF)	>0.95@230VAC, Full load
	THD	<=10% @120VAC, Full load
	Standby Power	<0.5W
	Current	1.1A max @120VAC
	Inrush Current	Cold start 6A @120VAC 320uA, 12A@277VAC 200us
OUTPUT	Current/Voltage/Power	4A/24VDC/96W
	Voltage Tolerance	+/- 4%
	Channel	1 (Red +, Black -)
	Start Delay	<2s at 230VAC
PROTECTION	Over Load	<5.45A auto recovery when the failure is removed
	Over Voltage	<36VDC Shut down the output, after restart recovers automatically.
	Short Circuit	Auto recovery when the failure is removed
SAFETY	Surge	L-N: 2kV
	Withstand Voltage	I/P-OP:3000VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	Safety Standards	UL8750 (type "HL"), CSA C22.2 No.250.13 -12 ; EAC TC004, UL60950-1, TUV EN60350-1; J61347-1, J613447-2-13 GB19510.1, GB19510.14, UL879
OTHER	Storage Temp, Humidity	-40°C ~ 85°C, 20-90% RH
	Working Temp. Ta	-25°C ~ +50°C
	Tc	90°C
	IP Rating	IP67
	Lifetime	50,000h @ tc:85°C
	Switch Cycle	>25,000
	Dimension	7.0" x 1.96" x 1.06" (L*W*H)

■ DERATING CURVE



■ INPUT VOLTAGE VS LOAD



Step-by-Step Installation Guide

(Model N° V7-096B024)

Required Tools	• LED Power Supply • Wirenuts Connectors • Jumper Cord 110 AC Current (If applicable) • Screwdriver • Voltage tester • Wire Stripper
Package Contents	• 1 Unit - 10 units/box
Safety Warnings	• LED power supply must be installed and operated by qualified professionals • Cut off the main 110-277Vac power before installation • Do not handle electrical parts with wet hands • Use appropriate personal protective equipment (PPE), such as safety shoes, gloves, etc.

Step 1: Turn Off Power

- Switch off the circuit breaker supplying power to the installation area.
- Use a voltage tester to confirm no power is present before beginning any work.

Step 2: Identify the Wires

Identify the input and output wires on the LED Power Supply:

- **AC Input (three conductors):**
 - Hot/Line: Black or bronze wire
 - Neutral: White or blue wire
 - Ground (Earth): Green or green/yellow wire
- **DC Output (two conductors):**
 - Positive (+): Red wire
 - Negative (-): Black wire

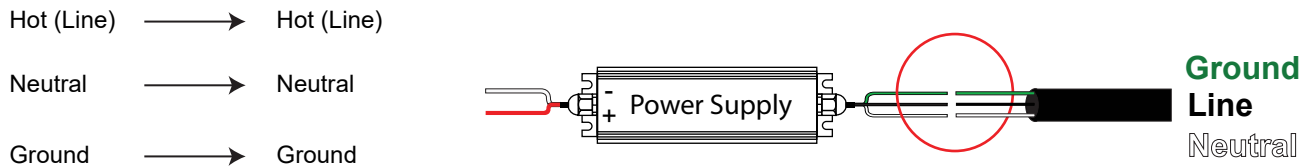
Step 3: Verify the Supply Voltage

- Turn on the main circuit breaker.
- Using a voltage tester, verify the voltage is **110~277VAC**.
- Turn the circuit breaker off again before proceeding with the installation.

Warning: Ensure the voltage from the breaker is within the LED driver's rated operating range (110-277VAC). Applying a voltage outside the specified range may damage the LED driver.

Step 4: Connect the Power Supply

- Connect the AC input wires of the LED power supply to the main AC power (Breaker or AC plug Cord)

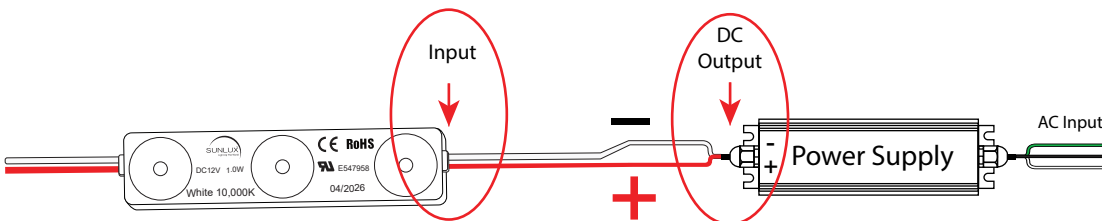


Important: Ensure all wire connections are secure, properly insulated, and comply with applicable electrical codes.

Step 5: Restore Power and Test

Important: Do not exceed 80% of the power supply's maximum output capacity. Operating within this limit helps ensure reliable performance and extends the life of the power supply.

- Ensure the DC output wires (Positive (+) and Negative (-)) are separated and do not touch each other.
- Turn on the main circuit breaker or plug the AC power cord into the power outlet.
- Using a voltage tester or multimeter, measure the DC output voltage of the power supply.
- Verify that the output voltage matches the voltage required by your LED lights.
- After confirming the correct output voltage, turn off the power before connecting the LED load.
- Connect the LED load to the DC output terminals, observing the correct **polarity**:
 - Positive (+) to Positive (+)
 - Negative (-) to Negative (-)
- Ensure all connections are properly insulated and comply with applicable electrical codes.
- Restore power and verify that the LED lights operate correctly.



Product Warranty Policy

ELITE LED SUPPLY is committed to excellence in product quality and the full satisfaction of its customers. In support of this commitment, it provides a five (5) year limited warranty covering the repair or replacement of products under **specified operating conditions and in accordance with the product specifications.**

Operating Conditions:

(Model N° V7-096B024)

- Power supply must be installed and operated by qualified professionals.
- Power supply must operate within the specified electrical range and environmental conditions (ingress protection rating of IP67).
- Power supply must be connected to a 110-277VAC circuit.
- Do not exceeding 80% of the power supply's maximum output capacity.

Warranty Coverage:

(Model N° V7-096B024)

- Warranty cover the repair or replacement of power supply under specified operating conditions.

Period Coverage:

(Model N° V7-096B024)

- The warranty is valid for 5 years from the day of purchase

The Warranty Dose Not Cover:

(Model N° V7-096B024)

- Misuse, improper installation, electrical surges, or physical damage
- Labor or installation costs
- Shipping and delivery costs for warranty claims, **unless otherwise stated**

Warranty Terms and Conditions

(Model N° V7-096B024)

- Defective power supplies must be reported within 48 hours of receipt
- All the claims require a valid proof of purchase (Invoice) which must match ELITE LED SUPPLY records
- Power supplies are eligible for repair or replacement only after inspection
- Approved claims will be repaired or replaced in accordance of manufacturer terms within 1-5 business days
- **Shipping and Delivery Costs for Warranty Claims:**
 - **Manufacturing defects:** ELITE LED will refund the shipping / delivery costs or issue a credit for a future order
 - **Defect due to misuse, improper installation, electrical surges, or physical damage:** The customer is responsible for all shipping and delivery costs related to the warranty claim.

