OMNIDRIVE® 3
Electronic Dimmable Driver

The go-to driver for complete compatibility, engineered for COB and other tight-pitch LED tape light, delivering smooth, reliable dimming performance and compatibility across popular applications.
The models are intentionally simplified to 60W and 96W in two enclosure configurations: a driver-only option and a driver/junction-box combination.

Date

Project Notes

24 VDC

TITLE **24**

FEATURES

- <1% dimming with compatible ELV and TRIAC controls
- Optimized for COB and tight-pitch LED tape light
- 120VAC input with 24VDC Class 2 output
- Available in 60W and 96W models with low minimum load
- Driver-only and NEMA 3R junction box options
- 5 Year Limited Warranty



ORDERING CODES

Driver Only

	Model	Voltage/Wattage	Junction Box
DI			
	OD3	24V60W (24 Volt / 60 Watt) 24V96W (24 Volt / 96 Watt)	J (Junction Box)

RECOMMENDED DIMMERS

- **LUTRON: DVELV-300**
- **LUTRON: DVRP-253P**
- **LUTRON: CTCL-153P**
- **LUTRON: DVCL-153P**
- **LUTRON: MRF2-6ND**
- **LUTRON: RRST-PRO**
- **LUTRON: MAELV-600**
- **LUTRON: PD5-NE**
- **LUTRON: MACL-153M**

GENERAL SPECIFICATIONS (ALL MODELS)

Input Voltage / Frequency	120VAC, 50/60Hz
Output Voltage	24VDC
Class 2	Yes
Ambient Temperature	-22 ~ +122°F (-30 ~ +50°C)
Operating Temperature	-40 ~ +140°F (-40 ~+60°C)
Dimmable	Yes (<1%)
Input Connection Type	Wire
Lead Wire A	18/3AWG, AC/L (Black), AC/N (White), G (Green)
Output Connection Type	Wire
Lead Wire B	18/2AWG, V+ (Red), V- (Black)
Internal Protection	Shut down, recovers automatically after fault condition is removed
Working Humidity	10 - 95%RH, non-condensing
Certification	cULus (US & Canada) Listed, UL # E499308, ANSI/UL 1310 Power Unit, CAN/CSA C22.2 No. 250.13, Class P, FCC Part 15 Compliant
Limited Warranty	5 Year Limited Warranty
Junction Box	Optional

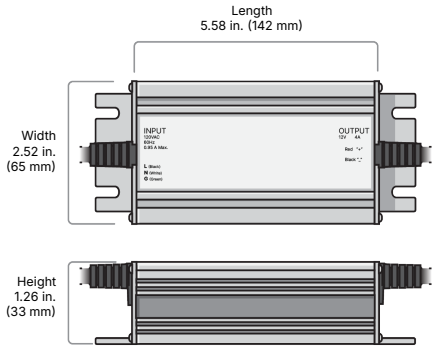
DETAILED SPECIFICATIONS

	OD3-24V60W	OD3-24V60W-J	OD3-24V96W	OD3-24V96W-J
Maximum Load	60W	60W	96W	96W
Efficiency	>88%	>88%	>89%	>89%
Minimum Load	5W	5W	6W	6W
Environment	Indoor / Damp Location (IP20)	Outdoor / Wet Location (NEMA3R)	Indoor / Damp Location (IP20)	Outdoor / Wet Location (NEMA3R)
Dimensions	5.58 × 2.52 × 1.26 in. (L x W x H)	5.8 × 4.5 × 1.5 in. (L x W x H)	5.58 × 2.52 × 1.26 in. (L x W x H)	5.8 × 4.5 × 1.5 in. (L x W x H)

MECHANICAL DIAGRAMS

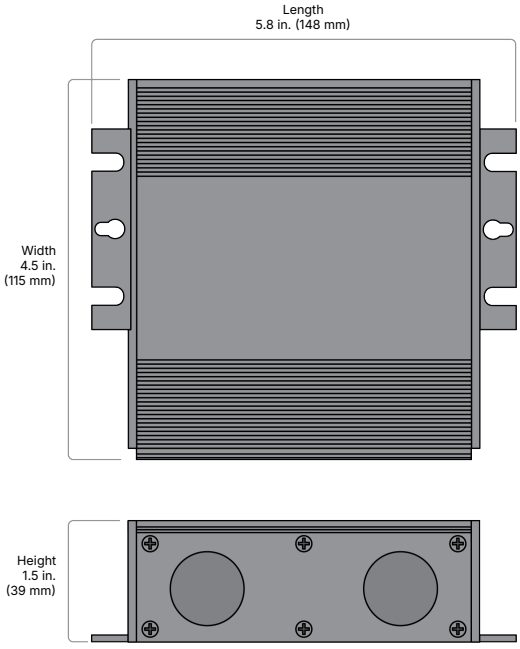
OD3-24V60W

OD3-24V96W



OD3-24V60W-J

OD3-24V96W-J



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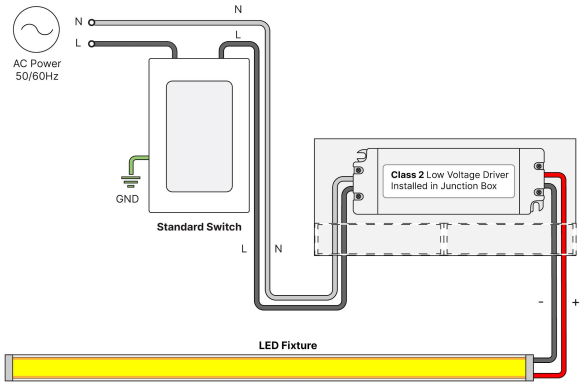
Project Notes

24 VDC

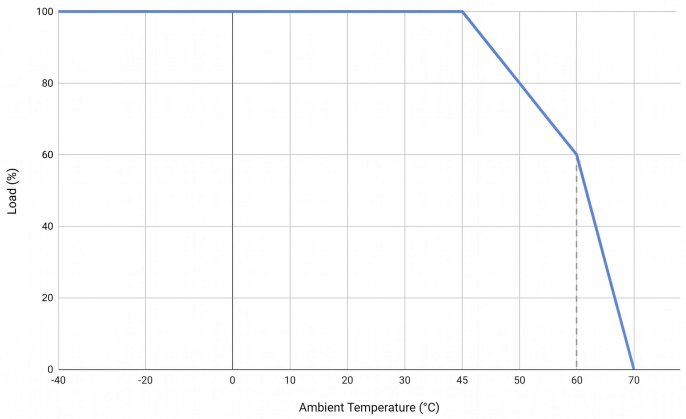
TITLE **24**

SYSTEM DIAGRAMS

ELECTRONIC



DERATION CURVE



- Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.

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Project Notes

24 VDC

TITLE 24

CERTIFICATIONS

Safety

- cULus (US & Canada) Listed, UL # E499308. ANSI/UL 8750. CAN/CSA-C22.2 No.250.13. Class P
- Title 24 JA8/JA10 Compliant

Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
5. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
6. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings.
7. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
8. Do not modify product beyond instructions or warranty will be void.
9. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
10. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Warranty

- 5 Year Limited Warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.

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