

OMNIDRIVE® BASICS 12V and 24V Electronic Dimmable Driver

Compact electronic dimmable (ELV) driver for everyday projects.
Compatible with the most popular dimmers.

Date _____

Project Notes _____



FEATURES

- No minimum load
- Smooth dimming to 5%
- Versatile form factor
- Competitively priced
- Optional UL Listed Junction Box
- Simple to install
- 5 Year limited warranty



ORDERING CODES

Driver Only

	Model	Voltage/Wattage	
DI			
	ODBELV	12V60W (12 Volt / 60 Watt)	24V60W (24 Volt / 60 Watt, w/ Junction Box)
		24V60W (24 Volt / 60 Watt)	24V96W (24 Volt / 96 Watt)
		12V60W (12 Volt / 60 Watt, w/ Junction Box)	24V96W (24 Volt / 96 Watt, w/ Junction Box)

RECOMMENDED DIMMERS

- LUTRON: Caseta - PD-SNE
- LUTRON: Diva - DVELV-300P
- LUTRON: Diva - DVCL-153-P
- LUTRON: Homeworks QS - HQRD 6ND
- LUTRON: Maestro - MACL-153M
- LUTRON: Maestro - MAELV-600
- LUTRON: Radio RA2 - RRD-PRO
- LEVITON: Decora - DSE06-10Z
- LEVITON: Sureslide - 6674-P

Note: OMNIDRIVE® BASICS is not for use with ALPHATECH® X, DAZZLE® RGB, STREAMLITE®, VALENT®, or VALENT® X lighting.

OMNIDRIVE® BASICS - SPECIFICATION TABLE

Models	ODBELV-12V60W	ODBELV-24V60W	ODBELV-12V60W-LPELV	ODBELV-24V60W-LPELV	ODBELV-24V96W	ODBELV-24V96W-LPS
Input Voltage / Frequency	120V AC 50/60Hz, 0.5A	120V AC 50/60Hz, 0.5A	120V AC 50/60Hz, 0.5A	120V AC 50/60Hz, 0.5A	120V AC 50/60Hz, 0.83A	120V AC 50/60Hz, 0.83A
Maximum Load	60W	60W	60W	60W	96W	96W
Output Voltage	12VDC	24VDC	12VDC	24VDC	24VDC	24VDC
Efficiency	>98%	>85%	>98%	>85%	>85%	>85%
Class 2	Yes	Yes	Yes	Yes	Yes	Yes
Ambient Temperature	-40 ~ +140°F (-40 ~ +60°C)	-40 ~ +140°F (-40 ~ +60°C)	-40 ~ +140°F (-40 ~ +60°C)	-40 ~ +140°F (-40 ~ +60°C)	-22 ~ 194°F (-30 ~ +90°C)	-22 ~ 194°F (-30 ~ +90°C)
Operating Temperature	-22 ~ 158°F (-30 ~ +70°C)	-22 ~ 158°F (-30 ~ +70°C)	-22 ~ 158°F (-30 ~ +70°C)	-22 ~ 158°F (-30 ~ +70°C)	-22 ~ 158°F (-30 ~ +70°C)	-22 ~ 158°F (-30 ~ +70°C)
Minimum Load	No Minimum Load	No Minimum Load	No Minimum Load	No Minimum Load	No minimum load	No minimum load
Dimmable	Yes	Yes	Yes	Yes	Yes	Yes
Input Connection Type	Wire	Wire	Wire	Wire	Wire	Wire
Lead Wire A	8in 18AWG Bare Wire Leads, AC/L (Black), AC/N (White)	8in 18AWG Bare Wire Leads, AC/L (Black), AC/N (White)	8in 18AWG Bare Wire Leads, AC/L (Black), AC/N (White)	8in 18AWG Bare Wire Leads, AC/L (Black), AC/N (White)	7.25in 18AWG Bare Wire	7.25in 18AWG Bare Wire
Output Connection Type	Wire	Wire	Wire	Wire	Wire	Wire
Lead Wire B	8in 18AWG Bare Wire Leads, V+ (Red), V- (Black)	8in 18AWG Bare Wire Leads, V+ (Red), V- (Black)	8in 18AWG Bare Wire Leads, V+ (Red), V- (Black)	8in 18AWG Bare Wire Leads, V+ (Red), V- (Black)	7.25in 18AWG Bare Wire	7.25in 18AWG Bare Wire
Internal Protection	Auto-reset; short circuit, overload and thermal protection	Auto-reset; short circuit, overload and thermal protection	Auto-reset; short circuit, overload and thermal protection	Auto-reset; short circuit, overload and thermal protection	Auto-reset; short circuit, overload and thermal protection	Auto-reset; short circuit, overload and thermal protection
Environment	Indoor / Damp Location (IP20)	Indoor / Damp Location (IP20)	Indoor / Damp Location (IP20)	Indoor / Damp Location (IP20)	Indoor / Damp Location (IP20)	Indoor / Damp Location (IP20)
Working Humidity	95% RH max	95% RH max	95% RH max	95% RH max	95% RH max	95% RH max
Dimensions	5.5 × 4.7 × 0.96 in. (L x W x H)	5.5 × 4.7 × 0.96 in. (L x W x H)	5.5 × 4.7 × 0.96 in. (L x W x H)	5.5 × 4.7 × 0.96 in. (L x W x H)	11.25 × 3.75 × 1.9 in. (L x W x H)	11.25 × 3.75 × 1.9 in. (L x W x H)
Certification	UL Listed, Class 2	UL Listed, Class 2	UL Listed, Class 2	UL Listed, Class 2	UL Listed, Class 2	UL Listed, Class 2

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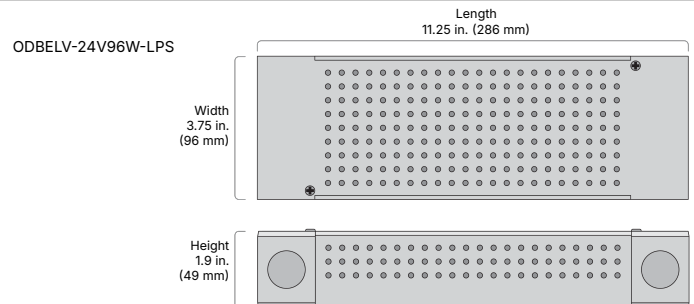
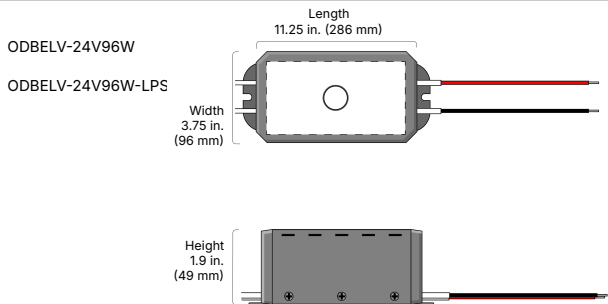
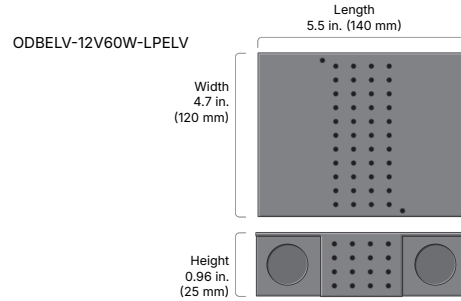
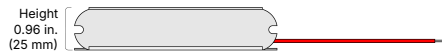
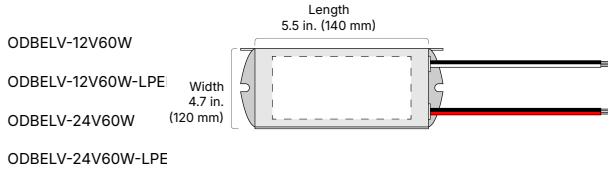
Project Notes _____



24
VDC

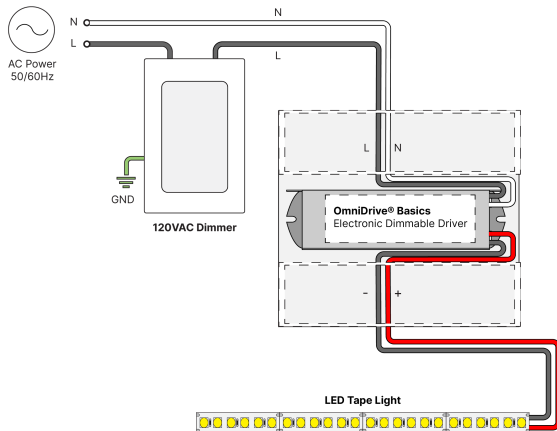
12
VDC

MECHANICAL DIAGRAMS



SYSTEM DIAGRAMS

STANDARD SWITCH



- Lumen value measured in accordance to IES LM-80-08. 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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CERTIFICATIONS

Safety

- Driver Only: E499308 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14, Class 2.
- Driver in Junction Box: E469769 cULus Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. Class 2.

Environment

- Indoor/Damp Location

Performance

- Not compatible with VALENT® X, STREAMLITE™, or AlphaTECH® X tape lights.

Safety / Warnings / Disclosures

- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
- Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
- 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.
- Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
- Do not modify product beyond instructions or warranty will be void.
- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- 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

Limited Warranty

- 3 Year, 5 Year and See Individual Components limited warranties

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.