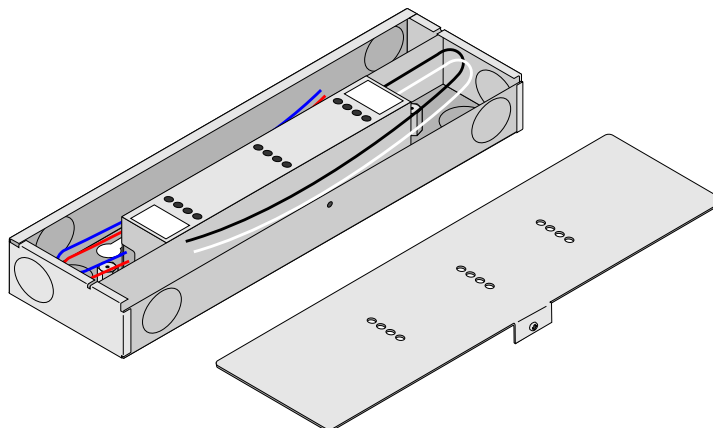




Item #	
Project	




ITEM #	INPUT VOLTAGE	OUTPUT VOLTAGE	WATTAGE
VLM60W-12	120 / 277VAC	12VDC	60W
VLM60W-24	120 / 277VAC	24VDC	60W
VLM100W-24	120 / 277VAC	24VDC	100W
VLM60W-48	120 / 277VAC	48VDC	60W
VLM100W-48	120 / 277VAC	48VDC	100W

OVERVIEW

The VLM 12VDC, 24VDC, and 48VDC Constant Voltage LED Drivers are an excellent choice to pair with On/Off switches. These hard-wired drivers are available in multiple form factors and voltage/wattage combinations to meet your low-voltage LED lighting needs.

FEATURES

- For use with 120VAC or 277VAC installations.
- Available in 12, 24, or 48VDC output versions.
- Short circuit, over current, over voltage, and over temperature protections
- Class 2
- UL Certified
- 5-Year Warranty



SKU Builder

VLM

Wattage

60W

100W

-

Voltage

12*

24

48

-

Junction Box

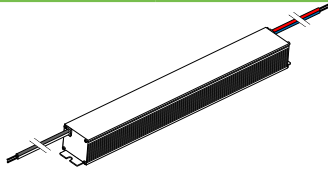
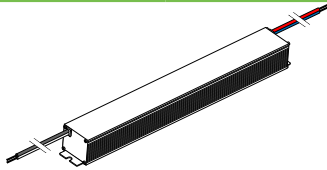
LPM

* 12V LO-PRO COMBO only available in 60W

LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

SPECIFICATION SHEET

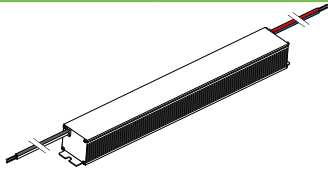
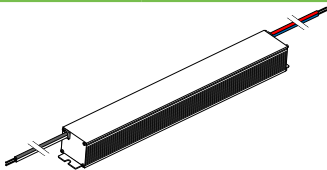
SPECIFICATIONS - 12VDC MODELS

	VLM60W-12	VLM60W-12-LPM	VLM100W-12	
				
Input Voltage / Frequency¹	120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')		120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')	
Max Load	60W / 5A (See Derating Curve)		96W / 8A (See Derating Curve)	
Class 2 Certified	Yes		No	
Output Voltage	12VDC		12VDC	
Ambient Temperature²	-22 - 158°F (-30 - +70°C)		-22 - 158°F (-30 - +70°C)	
Operating Temperature³	-4 - 122°F (-20 - +50°C)		-4 - 122°F (-20 - +50°C)	
Minimum Load	None		None	
Dimmability	PWM		PWM	
Input Current Full Load	1.16A@120VAC / 277VAC		1.16A@120VAC / 277VAC	
Primary Leads	UL 1015 18/2AWG, AC/L (Black), AC/N (White)		UL 1015 18/2AWG, AC/L (Black), AC/N (White)	
Secondary Leads	UL 1007 18/2AWG, V+(Red), V-(Blue)		UL 1007 18/2AWG, V+(Red), V-(Blue)	
Voltage Boost	No		No	
Circuit Breakers	Auto Reset Hiccup		Auto Reset Hiccup	
Efficiency / Power Factor Full Load	93% / PF>0.9		93% / PF>0.9	
Environment⁴	Indoor / Damp		Indoor / Damp	
Working Humidity	5 - 95% RH non-condensing		5 - 95% RH non-condensing	
Housing / Cooling	IP20-rated case with silicone-based potting		IP20-rated case with silicone-based potting	
Dimensions	5.1 x 0.75 x 0.77 in. (L x W x H)		5.38 x 1.0 x 0.77 in. (L x W x H)	
Warranty	5 Years		5 Years	
Certifications	E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2. Class P Driver. (VLM60W-12-LPS: patent pending)		E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class P Driver. (VLM100W-12-LPS: patent pending)	

LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

SPECIFICATION SHEET

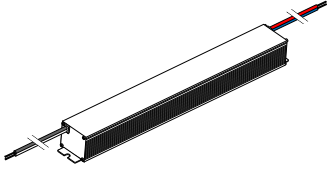
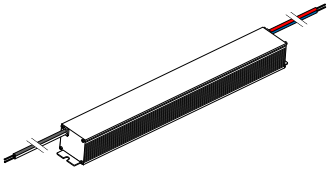
SPECIFICATIONS - 24VDC MODELS

	VLM60W-24	VLM60W-24-LPM	VLM100W-24	VLM100W-24-LPM
				
Input Voltage / Frequency¹	120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')		120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')	
Max Load	60W / 2.5A (See Derating Curve)		96W / 4A (See Derating Curve)	
Class 2 Certified	Yes		Yes	
Output Voltage	24VDC		24VDC	
Ambient Temperature²	-22 - 158°F (-30 - +70°C)		-22 - 158°F (-30 - +70°C)	
Operating Temperature³	-4 - 122°F (-20 - +50°C)		-4 - 122°F (-20 - +50°C)	
Minimum Load	None		None	
Dimmability	PWM		PWM	
Input Current Full Load	1.16A@120VAC / 277VAC		1.16A@120VAC / 277VAC	
Primary Leads	UL 1015 18/2AWG, AC/L (Black), AC/N (White)		UL 1015 18/2AWG, AC/L (Black), AC/N (White)	
Secondary Leads	UL 1007 18/2AWG, V+(Red), V-(Blue)		UL 1007 18/2AWG, V+(Red), V-(Blue)	
Voltage Boost	No		No	
Circuit Breakers	Auto Reset Hiccup		Auto Reset Hiccup	
Efficiency / Power Factor Full Load	93% / PF>0.9		93% / PF>0.9	
Environment⁴	Indoor / Damp		Indoor / Damp	
Working Humidity	5 - 95% RH non-condensing		5 - 95% RH non-condensing	
Housing / Cooling	IP20-rated case with silicone-based potting		IP20-rated case with silicone-based potting	
Dimensions	5.1 x 0.75 x 0.77 in. (L x W x H)		5.38 x 1.0 x 0.77 in. (L x W x H)	
Warranty	5 Years		5 Years	
Certifications	E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2. Class P Driver. (VLM60W-24-LPS: patent pending)		E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2. Class P Driver. (VLM100W-24-LPS: patent pending)	

LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

SPECIFICATION SHEET

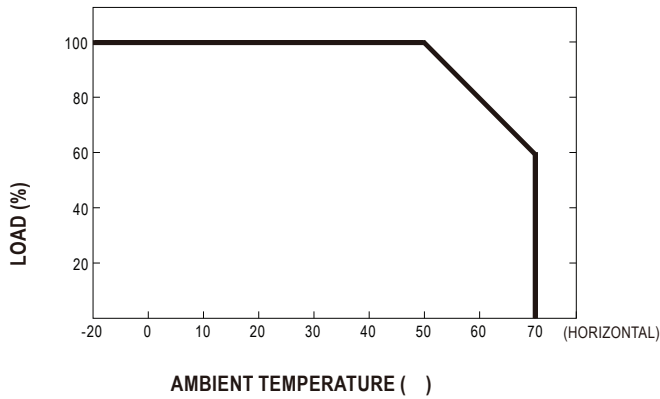
SPECIFICATIONS - 48VDC MODELS

	VLM60W-48	VLM60W-48-LPM	VLM100W-48	VLM100W-48-LPM
				
Input Voltage / Frequency¹	120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')		120 / 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve')	
Max Load	60W / 1.25A (See Derating Curve)		96W / 2A (See Derating Curve)	
Class 2 Certified	Yes		Yes	
Output Voltage	48VDC		48VDC	
Ambient Temperature²	-22 - 158°F (-30 - +70°C)		-22 - 158°F (-30 - +70°C)	
Operating Temperature³	-4 - 122°F (-20 - +50°C)		-4 - 122°F (-20 - +50°C)	
Minimum Load	None		None	
Dimmability	PWM		PWM	
Input Current Full Load	1.16A@120VAC / 277VAC		1.16A@120VAC / 277VAC	
Primary Leads	UL 1015 18/2AWG, AC/L (Black), AC/N (White)		UL 1015 18/2AWG, AC/L (Black), AC/N (White)	
Secondary Leads	UL 1007 18/2AWG, V+(Red), V-(Blue)		UL 1007 18/2AWG, V+(Red), V-(Blue)	
Voltage Boost	No		No	
Circuit Breakers	Auto Reset Hiccup		Auto Reset Hiccup	
Efficiency / Power Factor Full Load	93% / PF>0.9		93% / PF>0.9	
Environment⁴	Indoor / Damp		Indoor / Damp	
Working Humidity	5 - 95% RH non-condensing		5 - 95% RH non-condensing	
Housing / Cooling	IP20-rated case with silicone-based potting		IP20-rated case with silicone-based potting	
Dimensions	5.1 x 0.75 x 0.77 in. (L x W x H)		5.38 x 1.0 x 0.77 in. (L x W x H)	
Warranty	5 Years		5 Years	
Certifications	E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2. Class P Driver. (VLM60W-48-LPS: patent pending)		E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2. Class P Driver. (VLM100W-48-LPS: patent pending)	

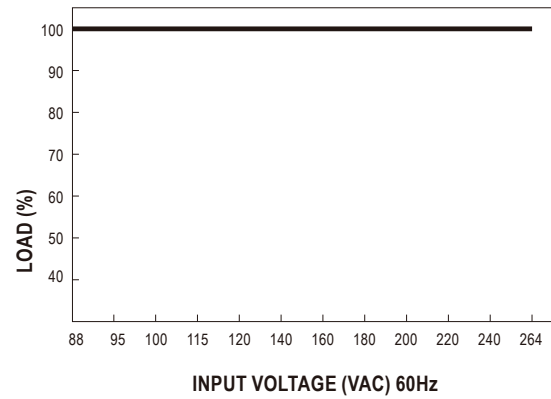
LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

SPECIFICATION SHEET

DERATING CURVE



STATIC CHARACTERISTIC CURVE



Notes

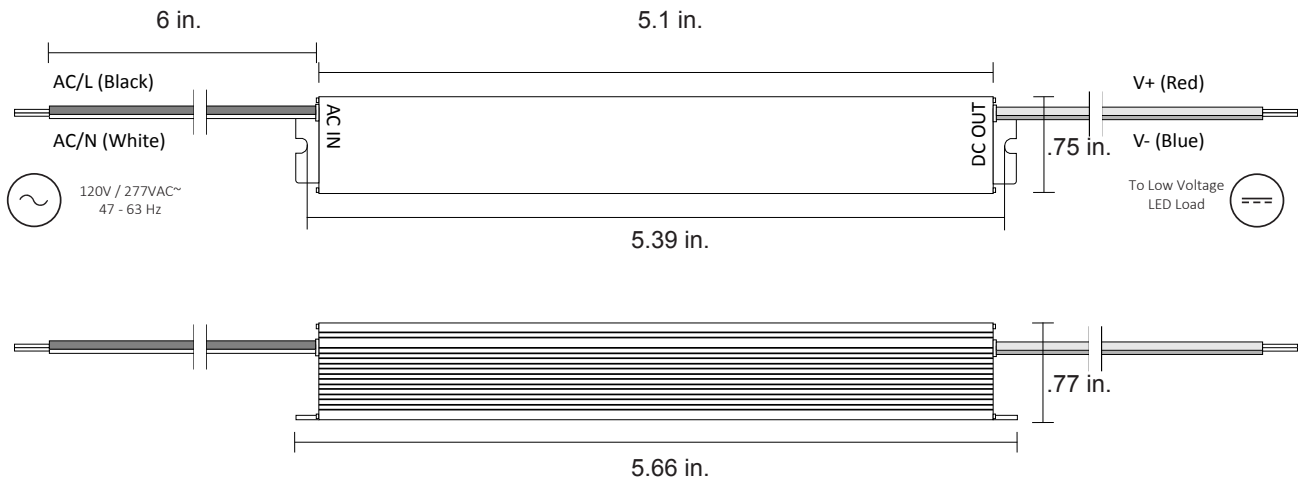
1. Refer to the 'Static Characteristics Curve' if installing under low input voltage conditions to properly derate the power supply load
2. Refer to the 'Derating Curve' if nearing max. ambient temperature to properly derate the power supply load. Do not install product in an environment outside the listed ambient temperature.
3. Operating temperature is measured according to the minimum and maximum ambient temperature environment. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
4. Suitable for indoor / damp locations. NEC definition of damp location: Locations protected from weather and not subject to saturation with water or other liquids but subject to moderate degrees of moisture. Examples of such locations include partially protected locations under canopies, marquees, roofed open porches, and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, some barns, and some cold-storage warehouses.

LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

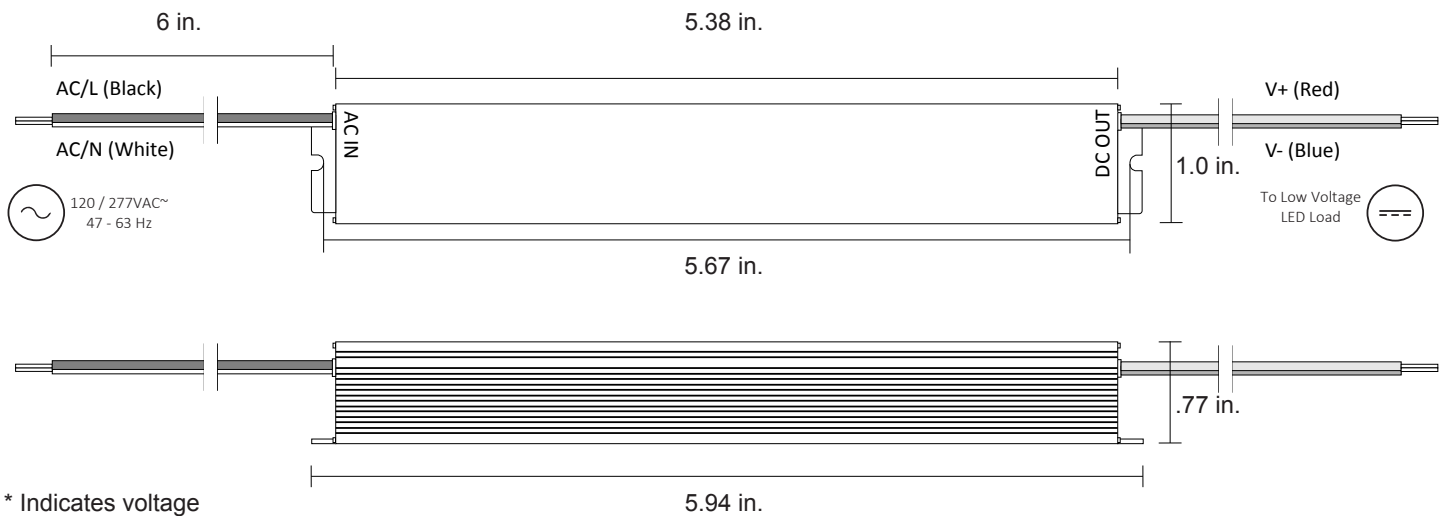
SPECIFICATION SHEET

MEASUREMENTS

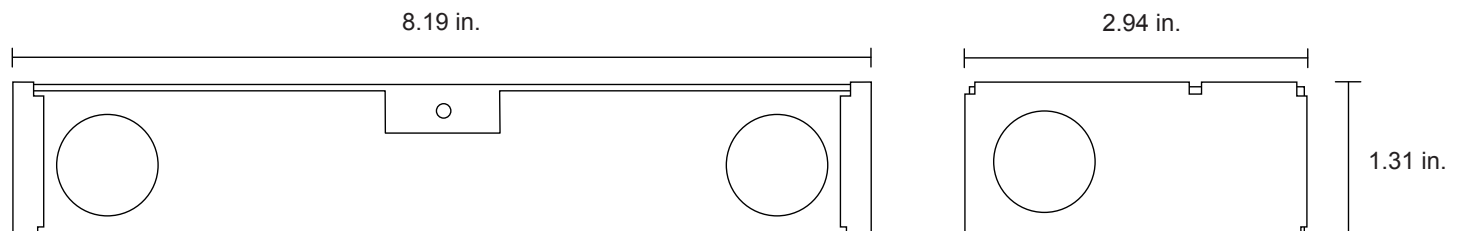
60W MODELS - VLM60W-*



96W MODELS - VLM100W-*



JUNCTION BOX



LO-PRO MINI JUNCTION BOX & VLM DRIVER COMBO

SPECIFICATION SHEET

ADDITIONAL RESOURCES

VLM SERIES CONSTANT VOLTAGE DRIVER INSTALLATION GUIDE

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. DO NOT modify product beyond instructions or warranty will be void.
4. Turn power OFF at main breaker before servicing or installing this product.
5. Proper heat dissipation will prolong the working lifespan of this product. Install in a well-ventilated area free from explosive gases and vapors.
6. Refer to the 'Static Characteristics Curve' if installing under low input voltage conditions to properly derate the power supply load
7. Refer to the 'Derating Curve' if nearing max. ambient temperature to properly derate the power supply load. Do not install product in an environment outside the listed ambient temperature.
8. Ensure a compatible LED fixture with the correct operating voltage is installed with this product.
9. Drivers in this specification sheet are not compatible with 120VAC dimming controls.
10. To compensate for voltage drop, ensure applicable gauge in-wall rated wire is installed between driver and LED fixture.

WARRANTY

Limited Warranty

The five (5) year limited warranty of this product begins from the date of shipment. The warranty of each item can be found in the 'Specifications' chart under '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

Diode LED 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. Diode 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 Diode 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 Diode 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. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode 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 Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



© 2019 Elemental LED, Inc. All rights reserved.
Specifications are subject to change without notice.
Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com