

SPECIFICATION SHEET



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















OVERVIEW

These 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 277VAC installations.
- Available in 12, 24, or 48 volt output versions.
- Short circuit, over current, over voltage, and over temperature protections
- Class 2 models available
- UL Certified & Component Recognized
- 5-Year Warranty

| Item # | |
|---------|--|
| Project | |

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SPECIFICATIONS - 12VDC MODELS

| | VLM60W-12 | VLM100W-12 |
|---|---|---|
| | | |
| Input Voltage / Frequency ¹ | 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 Temperature ² | -22 - 158°F (-30 - +70°C) | -22 - 158°F (-30 - +70°C) |
| Operating Temperature ³ | -4 - 122°F (-20 - +50°C) | -4 - 122°F (-20 - +50°C) |
| Minimum Load | None | None |
| Dimmability ⁴ | On/Off installations only | On/Off installations only |
| 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 |
| Environment⁵ | Indoor / Damp - IP 64 | Indoor / Damp - IP 64 |
| Working Humidity | 5 - 95% RH non-condensing | 5 - 95% RH non-condensing |
| Housing / Cooling | IP64-rated case with silicone-based potting | IP64-rated case with silicone-based potting |
| Dimensions | 4.33 x 0.55 x 0.55 in. (L x W x H) | 5.39 x 1.0 x 0.75 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 | E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. |

SPECIFICATION SHEET

SPECIFICATIONS - 24VDC MODELS

| | VLM60W-24 | VLM100W-24 | |
|--|---|--|--|
| | | | |
| 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 Temperature ² | -22 - 158°F (-30 - +70°C) | -22 - 158°F (-30 - +70°C) | |
| Operating Temperature ³ | -4 - 122°F (-20 - +50°C) | -4 - 122°F (-20 - +50°C) | |
| Minimum Load | None | None | |
| Dimmability ⁴ | On/Off installations only | On/Off installations only | |
| 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 | |
| Environment ⁵ | Indoor / Damp - IP 64 | Indoor / Damp - IP 64 | |
| Working Humidity | 5 - 95% RH non-condensing | 5 - 95% RH non-condensing | |
| Housing / Cooling | IP64-rated case with silicone-based potting | IP64-rated case with silicone-based potting | |
| Dimensions | 4.33 x 0.55 x 0.55 in. (L x W x H) | 5.39 x 1.0 x 0.75 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 | E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2 | |

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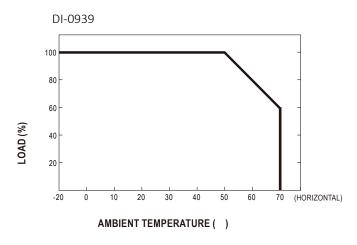
SPECIFICATIONS - 48VDC MODELS

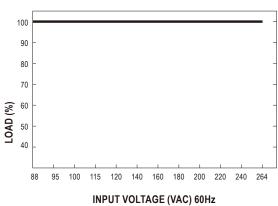
| | VLM60W-48 | VLM100W-48 | |
|---|---|--|--|
| | | | |
| Input Voltage / Frequency ¹ | 120 - 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve') | 120 - 277VAC / 47 - 63Hz (Refer to 'Static Characteristics Curve') | |
| Max Load | 60W / 1.25A (See Derating Curve) | 96W / 2A (See Derating Curve) | |
| Class 2 Certified | Yes | Yes | |
| Output Voltage | 48VDC | 48VDC | |
| Ambient Temperature ² | -22 - 158°F (-30 - +70°C) | -22 - 158°F (-30 - +70°C) | |
| Operating Temperature ³ | -4 - 122°F (-20 - +50°C) | -4 - 122°F (-20 - +50°C) | |
| Minimum Load | None | None | |
| Dimmability ⁴ | On/Off installations only | On/Off installations only | |
| 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 | |
| Environment ⁵ | Indoor / Damp - IP 64 | Indoor / Damp - IP 64 | |
| Working Humidity | 5 - 95% RH non-condensing | 5 - 95% RH non-condensing | |
| Housing / Cooling | IP64-rated case with silicone-based potting | IP64-rated case with silicone-based potting | |
| Dimensions | 4.33 x 0.55 x 0.55 in. (L x W x H) | 5.39 x 1.0 x 0.75 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 | E343741 cULus R/C 8750, CAN/CSA C22.2 No. 250.13-14. CE Certified. Class 2 | |

SPECIFICATION SHEET

DERATING CURVE

STATIC CHARACTERISTIC CURVE





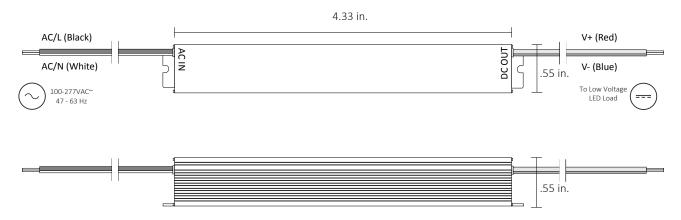
Notes

- 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. Not compatible with 120VAC dimming controls, or PWM dimmer/controls.
- 5. 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.

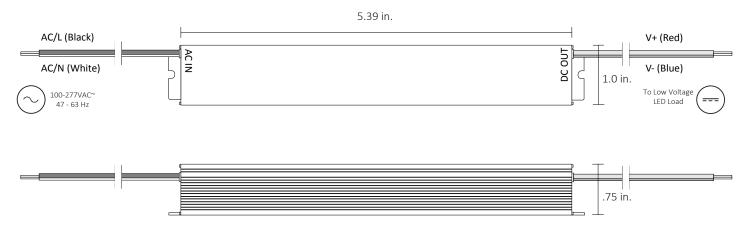
SPECIFICATION SHEET

MEASUREMENTS

60W MODELS - VLM60W-*



96W MODELS - VLM100W-*



^{*} Indicates voltage

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.
- 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.
- Drivers in this specification sheet are not compatible with 120VAC dimming controls, PWM/RGB(W), or DMX 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.

