vode Adaptive Architectural Lighting Systems

Remote Power Guide

Overview of Vode driver availability, specifications, wiring information, and dimmer compatibility.

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Contents

This guide includes technical information to help you quickly choose a driver. Vode uses a variety of drivers to meet the requirements of each LED product. Drivers are selected and programmed depending on rail type, power requirements, dimming protocols and LED type. If a specific driver data sheet is required, please contact Vode or your Vode agent.

Vode supplies 18 AWG multi-core wire harnesses for all driver to rail connections (except Vode ZipWave™ | 707). Vode does not approve the use of other wiring, doing so will void your warranty. All drivers provided are equipped with a luminaire quick disconnect on the line voltage power side.

Vode LED Boards

Zipper **Board**™
Low power LEDs with a 0.16” (4mm) pitch. A variety of optics are available for each system.

Button **Board**™
High power LEDs with a 1.5” (38mm) to 2” (51mm) pitch, depending on the product. Optics are included to control the beam angle.

Driver and Wiring Information

Unless otherwise requested, one driver per rail will be supplied. NOTE: DoubleBox™, DoubleRace™, Dual Direction ZipThree® Wall Mount and ZipThree® Ceiling Cable are considered two rails in one and will be provided with two drivers.

Programmed Output & Wattage

If your lumen or power (W) requirements are not met by Low, Standard, or High Output Vode can program the driver to adjust the lumen output and system wattage. Please contact Vode or your Vode agent for details.

All drivers are universal 120v-277v with the exception of AH2: Lutron 2-wire, which is only available in 120v.

Constant Current Drivers

LED drivers come in two types: constant current and constant voltage. Constant current drivers provide a predetermined amount of current (amps) and vary the output voltage according to demand. Constant voltage drivers provide a constant voltage and vary the current load. Vode uses constant current drivers for the reasons below:

Design

Preset current allows for precise control of light output.

Dimming

0.1% dimming levels are possible through the combination of current reduction and pulse width modulation (PWM).

Flickering

Constant current greatly minimizes visible flicker.

Reliability & Efficiency

The constant current design eliminates inefficient regulator components, increasing overall system efficiency.

Remote Power

What is remote power?
Locating the power supply (*LED driver*) away from the fixture.

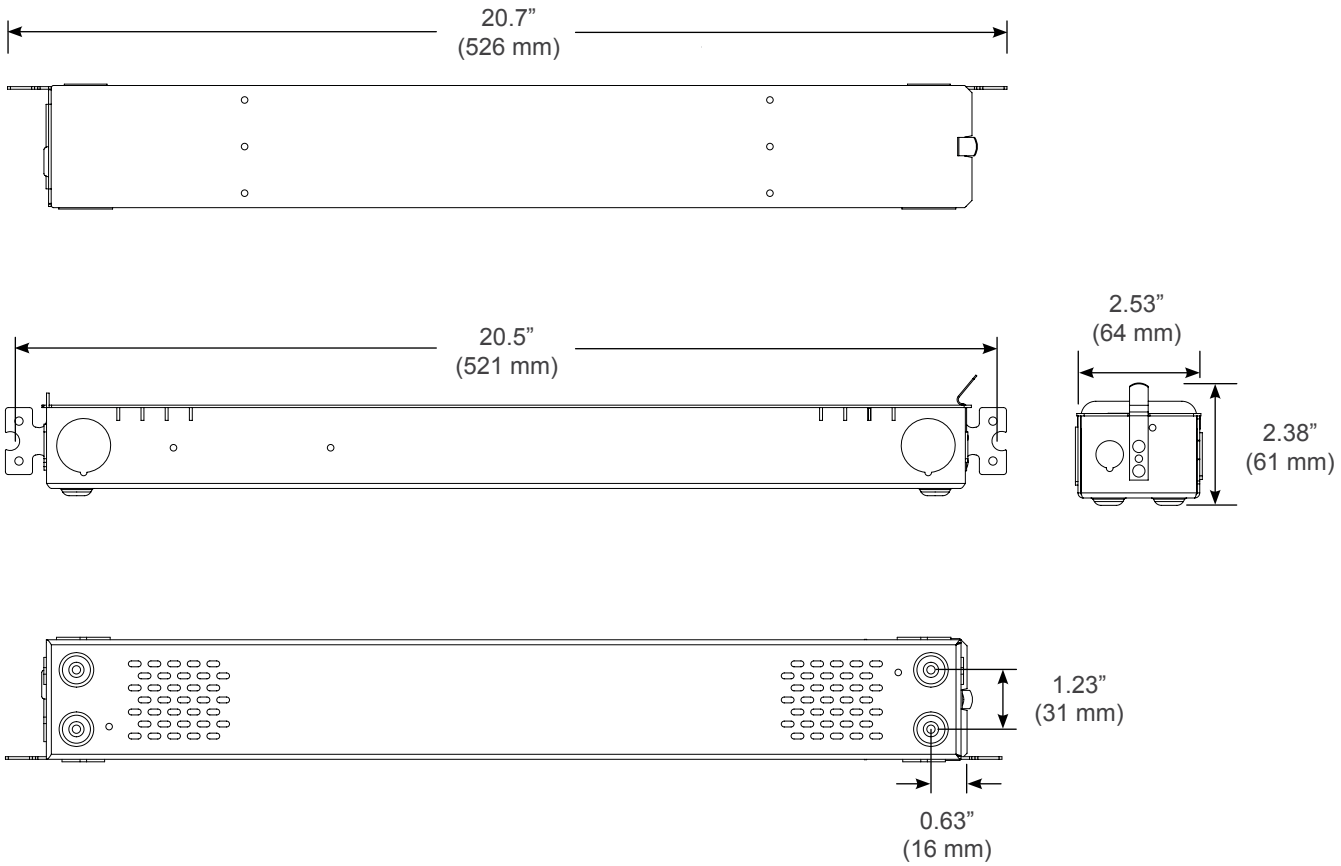
Benefits
• Allows minimum fixture profile
• Remove heat from fixture, extending the life of the LEDs
• Remove heat generating device from conditioned space
• Drivers can be grouped in a single location, making installation, control wiring and maintenance easier.

Features
•Drivers can be located up to 100’ (30.5 m) away from fixture. Consult driver specifications for exact length. Remote distance is calculated using Vode provided 18 AWG wire harness.

How does Vode supply Remote Power?
•Remote drivers come in two styles: remote brick power supply and remote linear power supply.
•Remote brick power supply is a 4.32” x 3.37” x 0.078” Galvanized Steel mounting plate that fits all 4” square J-Boxes.
•Remote Linear power supply is 20.7” x 2.375” x 2.53”, 0.054” formed Galvanized Steel with five (5) knockouts: (4) 1-1/8”, (1) 7/8“ and (1) 9/16”

Remote Linear Power Supply

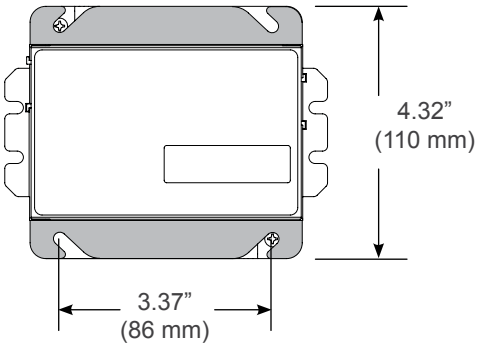
One remote power supply housing is supplied with each power supply. All Vode remote linear drivers come in a 1/16” (0.8mm) formed Galvanized Steel power supply housing with five (5) knockouts: (4) 1-1/8”, (1) 7/8” and (1) 9/16”. Accommodates standard linear power supplies.

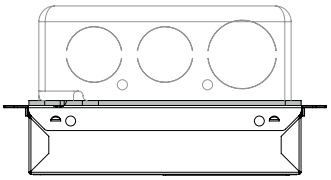


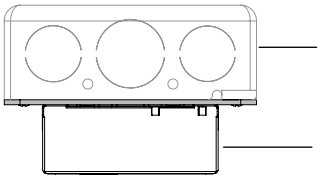
Remote Power Continued

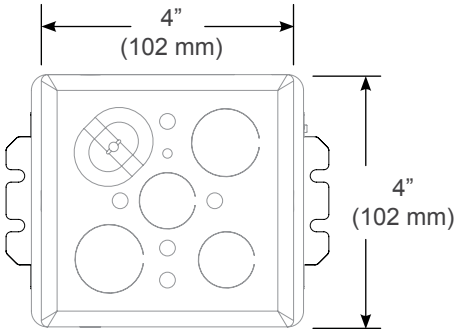
Remote Brick Power Supply

Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits all standard 4” square J-Boxes (*J-Box not provided*). Vode recommends 21 cubic inches as the minimum J-Box size, 4”x 4” x 1.5”.





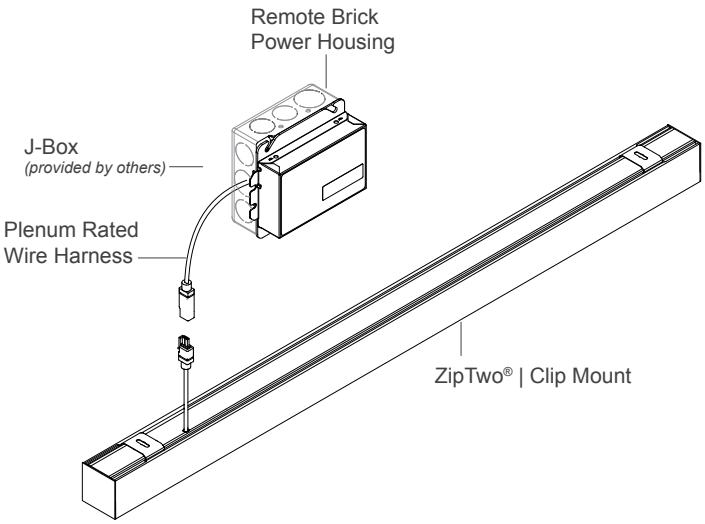




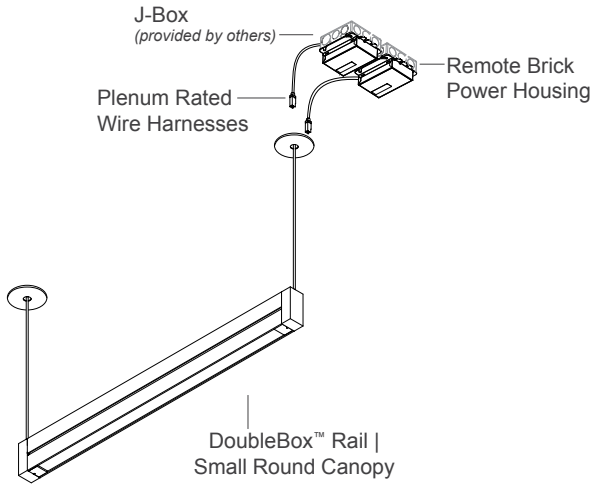
Remote Power Continued

Vode typically supplies one single-output driver per fixture which allows each fixture to be controlled independently. Two single-output drivers are supplied per dual fixture which allows direct and indirect lighting on the fixture to be controlled independently.

Note: Drawings not to scale, for reference only.



One single output Driver powering
One single direction Fixture



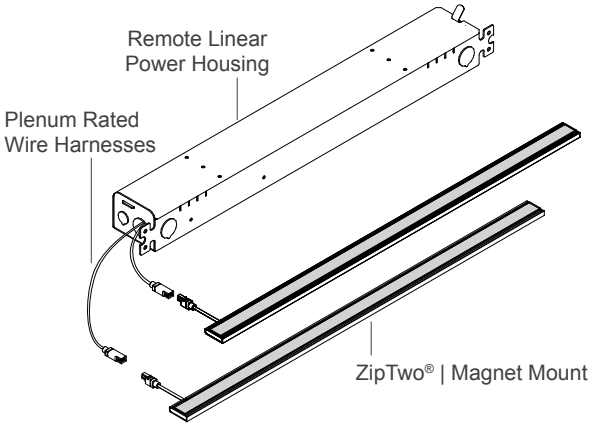
Two single output Drivers powering
One dual direction Fixture

Optimizing Power

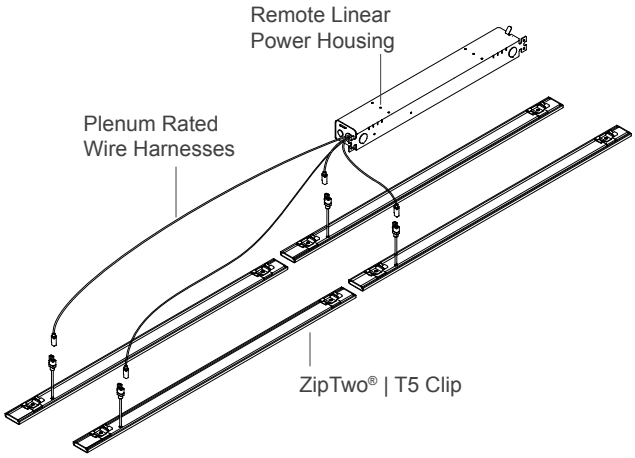
Depending on system configurations and power requirements, power can be optimized. Installation cost can potentially be reduced by using multiple output drivers. Up to 4 fixtures can be powered off one 4-output driver, depending on project requirements. Vode uses 2 & 4 output drivers to optimize power.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below

Note: Drawings not to scale, for reference only.



One 2-output Driver powering
Two single direction Fixtures



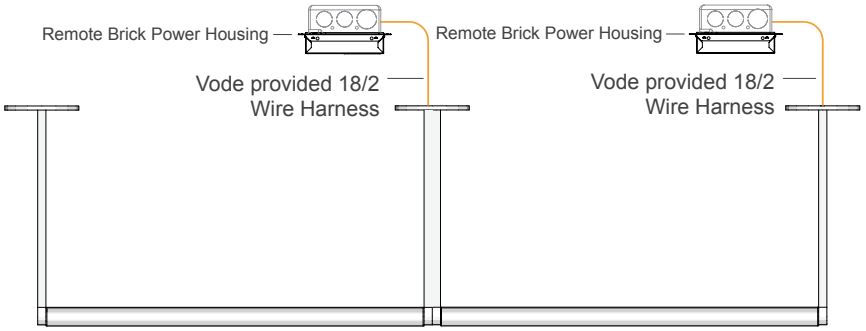
One 4-output Driver powering
Four single direction Fixtures

Mounting Remote Power

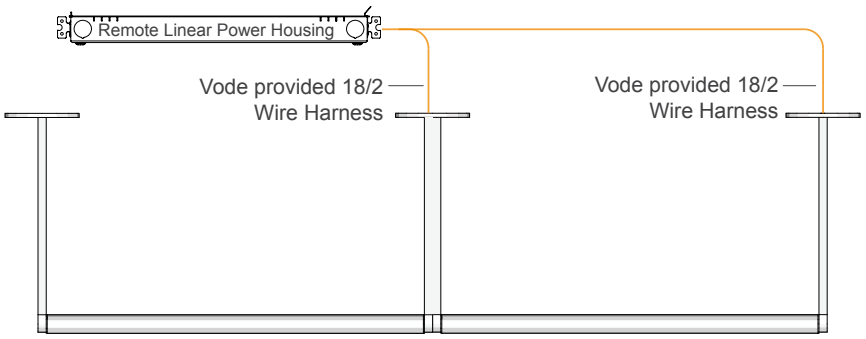
Maximum remote driver distance depends on the driver type selected. Many drivers can be installed up to 100’ (30.5 m) from the fixture. Vode typically supplies a 25’ (7.6 m) wire harness, unless otherwise requested.

IMPORTANT: Do not exceed maximum allowable distance as detailed per driver type.

Note: Drawings not to scale, for reference only.



Two single output Drivers powering
Two single direction Fixtures



One 2-output Driver powering
Two single direction Fixtures

Mounting Remote Power Continued

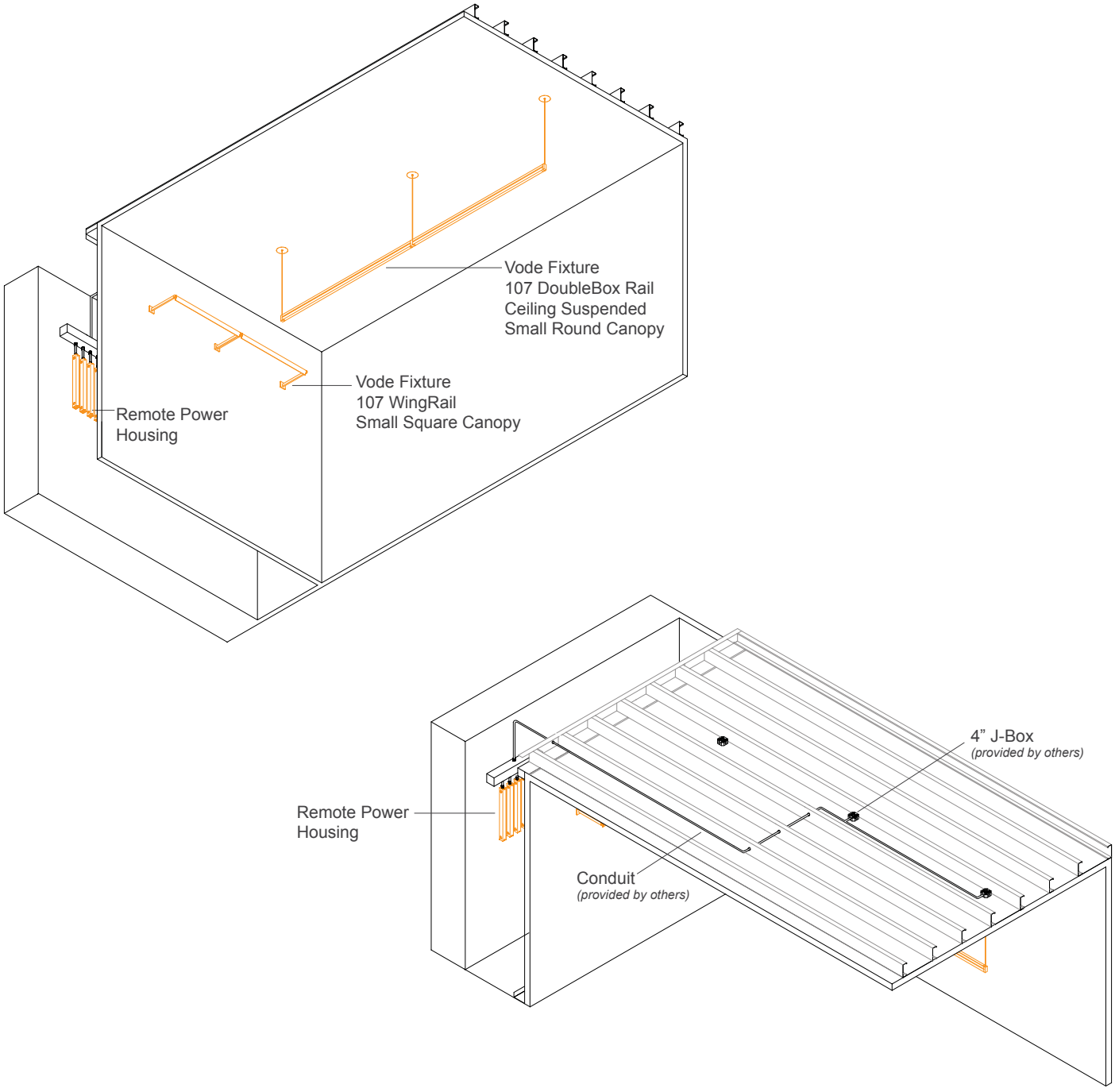
Where can it be mounted?

Remote Power can be located in a variety of spaces. Since power is located away from the fixture it can be mounted in a variety of spaces adding ease of installation and driver maintenance.

Drywall Integration

Remote power housings can be installed in one location for ease of installation and maintenance. Vode's plenum rated wire harness is easily installed to bring power from housing to fixtures. Check local building code to determine if conduit is required.

Note: Drawings not to scale, for reference only.

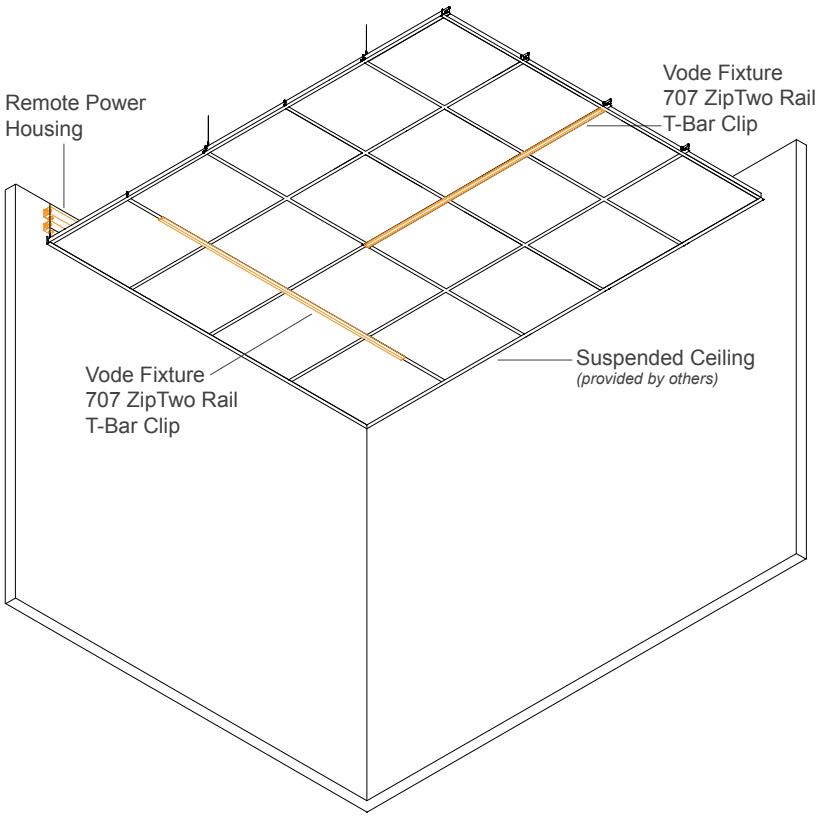


Mounting Remote Power Continued

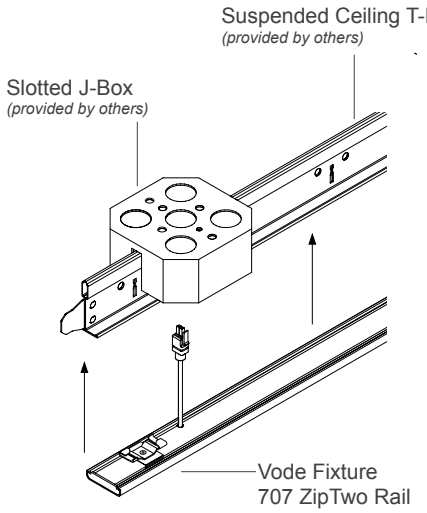
Suspended Ceiling Integration

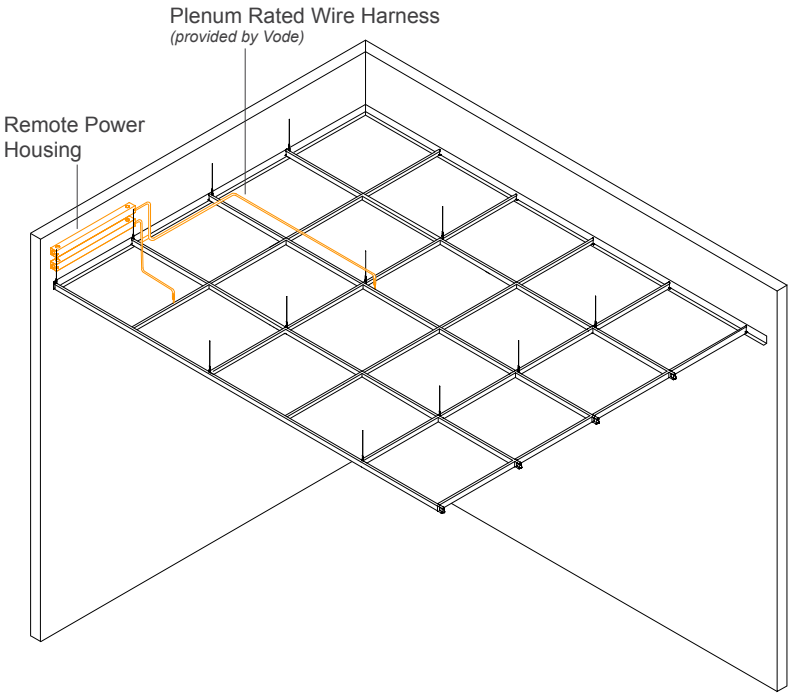
Remote Power housing can be installed above ceiling grid to allow for ease of installation, access, and maintenance. Plenum rated wire harness is easily installed to bring power from housing to fixtures without having to use conduit. Check local building code to determine if conduit is required.

Note: Drawings not to scale, for reference only.



If conduit is required Vode recommends using a slotted J-Box as shown below.



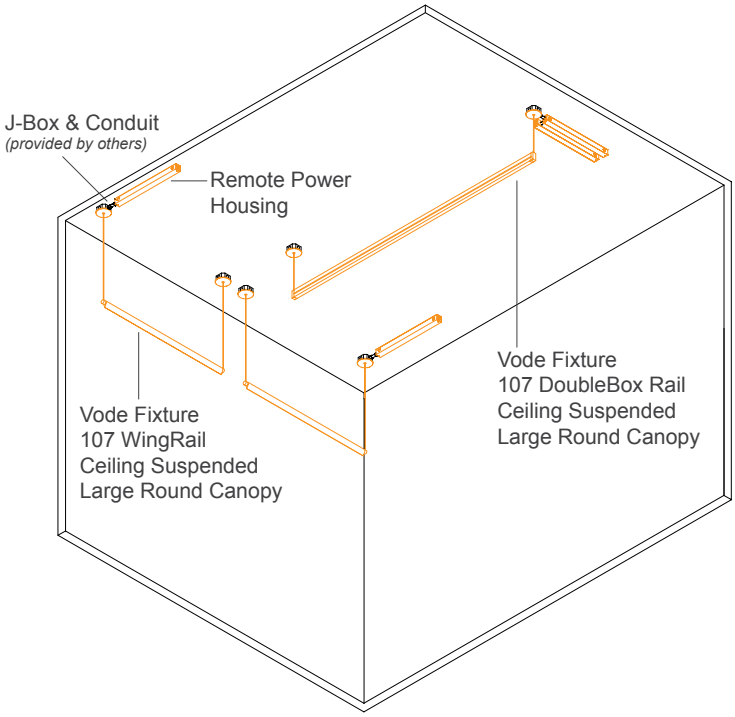


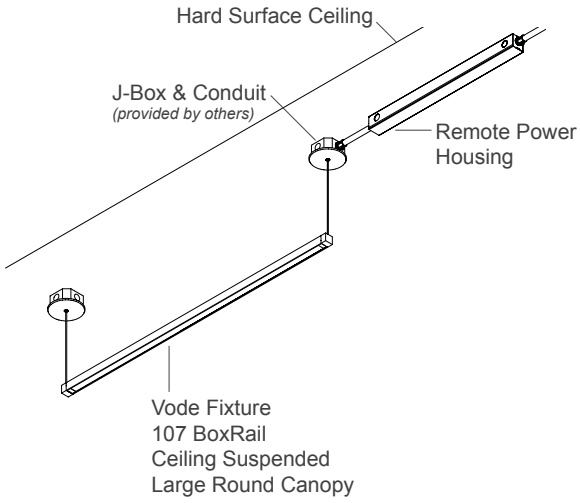
Mounting Remote Power Continued

Hard Surface Integration

J-Box Mounting
Remote power can be installed in a variety of locations when being integrated into a hard surface including mounting directly to the surface.

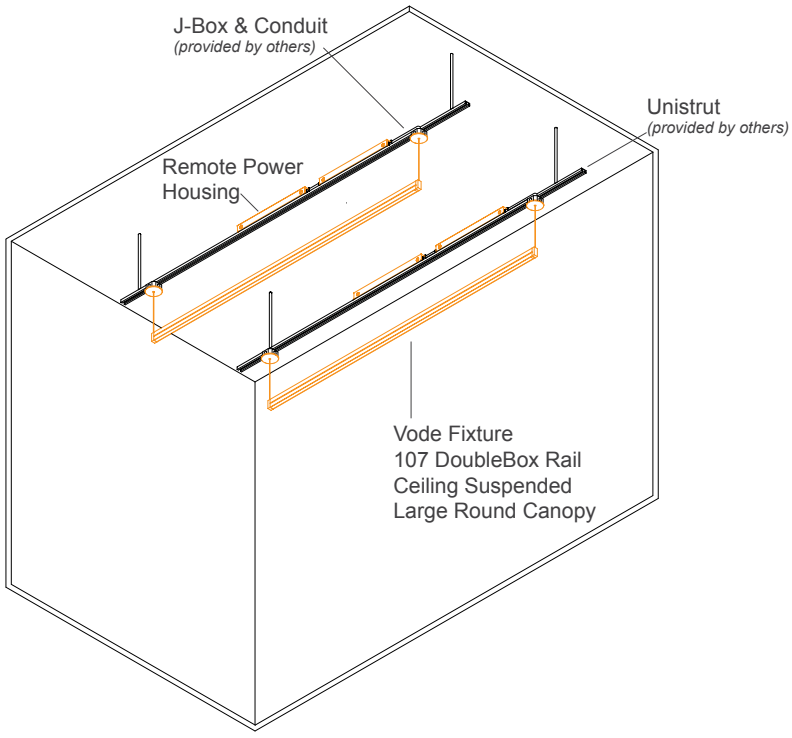
Note: Drawings not to scale, for reference only.

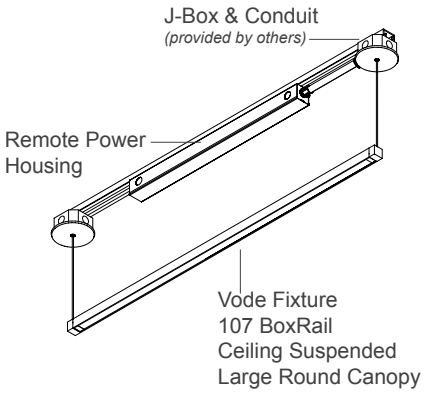




Strut Mounting

Many Vode fixtures and remote power housing can be mounted directly onto strut, as show below.



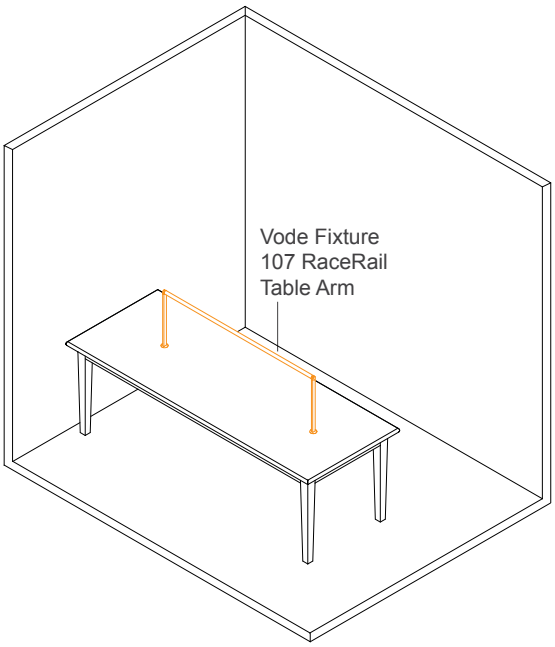


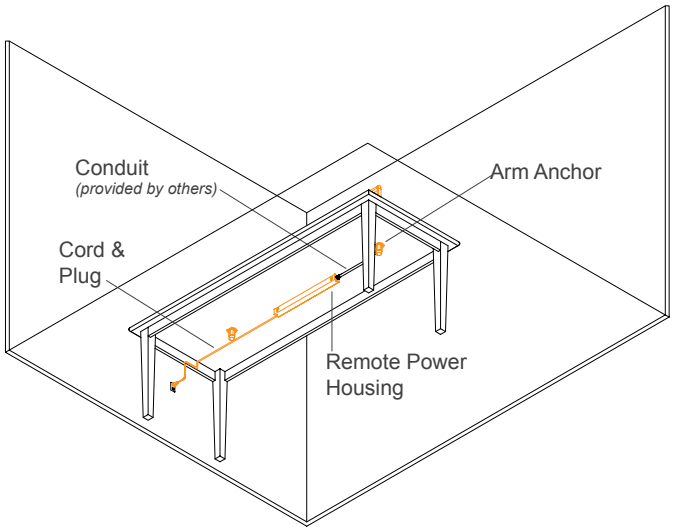
Mounting Remote Power Continued

Furniture System Integration

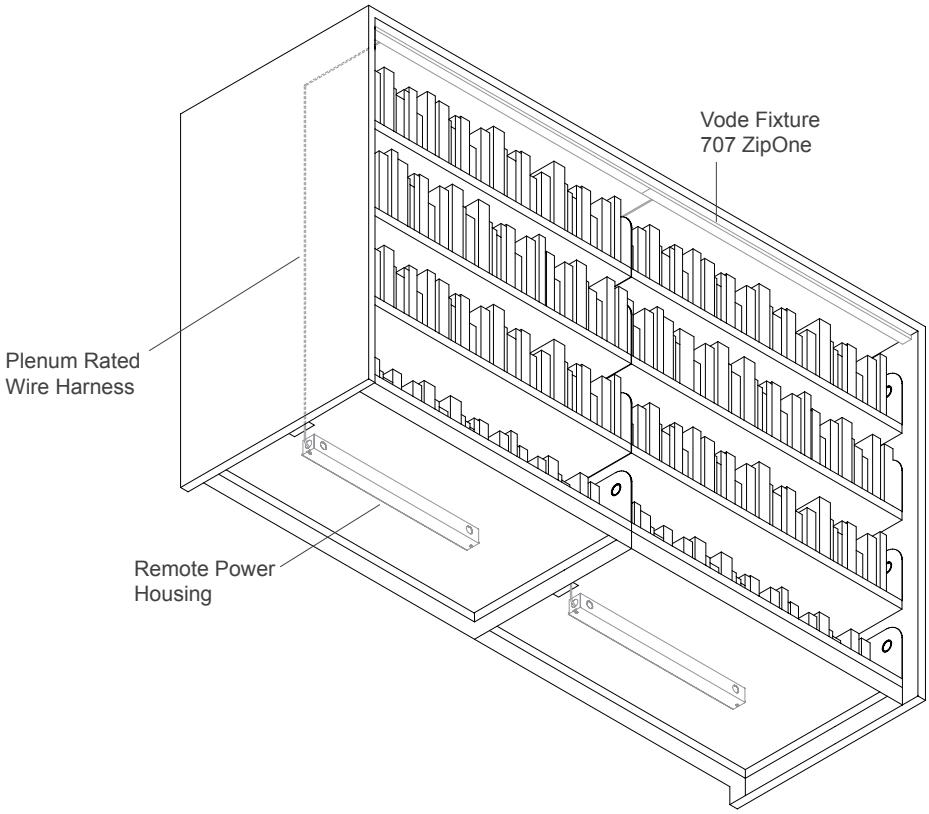
Remote power allows the power housing to be easily hidden in furniture systems. For Table Arm applications the power can be mounted under the furniture system, as shown below. The example below uses a cord and plug which allows the tables to be re-arranged as needed without having to re-wire the fixtures.

Note: Drawings not to scale, for reference only.





Remote power housing can integrate into library stacks. In the example below the drivers are installed below the stack and Vode's plenum rated wire harness brings power to the fixtures at the top of the stack.



Input Wattage and Voltage for all Vode Systems

The chart below shows the input wattage and voltage information for Vode systems. To select a driver, use below system specs. Contact Vode for any assistance required for specifying your system.

Remote Power

Vode Zipper Board™

107 | BoxRail®
107 | RaceRail®
107 | WingRail®
107 | DoubleBox†
107 | DoubleRace†

	12" (305mm)	24" (610mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	96" (2438mm)
Low Output	3W, 6V	6W, 15V	19W, 24V	12W, 32V	15W, 41V	18W, 50V	25W, 35V
Standard Output	5W, 6V	11W, 15V	17W, 24V	23W, 32V	29W, 41V	35W, 50V	49W, 35V
High Output	9W, 6V	21W, 15V	33W, 24V	45W, 32V	57W, 41V	70W, 50V	72W, 35V

707 | ZipOne®

	12" (305mm)	24" (610mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	96" (2438mm)
Low Output	4W, 9V	7W, 18V	10W, 27V	13W, 35V	16W, 44V	19W, 53V	25W, 35V
Standard Output	7W, 9V	13W, 18V	19W, 27V	25W, 35V	31W, 44V	37W, 53V	49W, 35V
High Output	10W, 9V	19W, 18V	28W, 27V	37W, 35V	46W, 44V	55W, 53V	73W, 35V

707 | ZipThree® Surface Mount†
707 | ZipThree® Ceiling Cable†
907 | BoxRail®

	12" (305mm)	24" (610mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	96" (2438mm)
Low Output	4W, 9V	7W, 18V	10W, 27V	13W, 35V	16W, 44V	19W, 53V	25W, 35V
Standard Output	7W, 9V	13W, 18V	19W, 27V	25W, 35V	31W, 44V	37W, 53V	49W, 35V
High Output	10W, 9V	19W, 18V	28W, 27V	37W, 35V	46W, 44V	55W, 53V	73W, 35V

707 | ZipTwo®

	12" (305mm)	24" (610mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	96" (2438mm)	108" (2743mm)	120" (3048mm)	132" (3352mm)	144" (3658mm)
Low Output	4W, 9V	7W, 18V	10W, 27V	13W, 35V	16W, 44V	19W, 53V	25W, 35V	31W, 44V	31W, 44V	37W, 53V	37W, 53V
Standard Output	7W, 9V	13W, 18V	19W, 27V	25W, 35V	31W, 44V	37W, 53V	49W, 35V	62W, 44V	62W, 44V	74W, 53V	74W, 53V
High Output	10W, 9V	19W, 18V	28W, 27V	37W, 35V	46W, 44V	55W, 53V	70W, 35V	88W, 42V	88W, 42V	N/A	N/A

807 | Nexa

	24" (610mm)	30" (762mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	90" (2286mm)	96" (2438mm)	108" (2743mm)	120" (3048mm)	132" (3352mm)	144" (3658mm)
Very Low Output	4W, 18V	5W, 21V	6W, 27V	7W, 35V	9W, 44V	11W, 53V	13W, 35V	14W, 35V	18W, 44V	18W, 44V	21W, 53V	21W, 53V
Low Output	7W, 18V	8W, 21V	10W, 27V	13W, 35V	16W, 44V	19W, 53V	23W, 35V	25W, 35V	31W, 44V	31W, 44V	37W, 53V	37W, 53V
Standard Output	13W, 18V	15W, 21V	19W, 27V	25W, 35V	31W, 44V	37W, 53V	46W, 35V	49W, 35V	61W, 44V	61W, 44V	73W, 53V	73W, 53V
High Output	19W, 18V	22W, 21V	28W, 27V	37W, 35V	46W, 44V	55W, 53V	69W, 35V	73W, 35V	N/A	N/A	N/A	N/A

207 | BoxRail ®

	24" (610mm)	36" (914mm)	48" (1219mm)	60" (1524mm)	72" (1829mm)	96" (2438mm)	120" (3048mm)	144" (3658mm)
Low Output *(Indirect)*	6W, 15V	9W, 24V	12W, 32V	15W, 41V	18W, 50V	25W, 35V	31W, 44V	37W, 53V
Low Output *(Direct)*	7W, 18V	10W, 27V	13W, 35V	16W, 44V	19W, 53V	25W, 35V	31W, 44V	37W, 53V
Standard Output *(Indirect)*	11W, 15V	17W, 24V	23W, 32V	29W, 41V	35W, 50V	49W, 35V	61W, 44V	73W, 53V
Standard Output *(Direct)*	13W, 18V	19W, 27V	25W, 35V	31W, 44V	37W, 53V	49W, 35V	61W, 44V	73W, 53V
High Output *(Indirect)*	20W, 15V	33W, 24V	45W, 32V	57W, 41V	69W, 50V	N/A	N/A	N/A
High Output *(Direct)*	25W, 18V	37W, 27V	49W, 35V	61W, 44V	73W, 53V	N/A	N/A	N/A

Input Wattage and Voltage for all Vode Systems

The chart below shows the input wattage and voltage information for Vode systems. To select a driver, use below system specs. Contact Vode for any assistance required for specifying your system.

Remote Power

Vode Button Board™

107 | BoxRail®
107 | WingRail®
907 | BoxRail®

	12” (305mm)	24” (610mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	96” (2438mm)
Standard Output	**7W, 6V**	**14W, 12V**	**21W, 18V**	**28W, 24V**	**35W, 30V**	**42W, 36V**	**56W, 48V**
High Output	**12W, 6V**	**24W, 12V**	**36W, 18V**	**47W, 24V**	**59W, 30V**	**71W, 36V**	**94W, 48V**

AE | 0-10v, 1.0% Dimming

0-10v Dimming, what is it?

0-10v dimming is an analog system that uses DC voltage to control the light output levels. This is one of the earliest dimming systems that was adapted from fluorescent fixtures to work with LED technology, and is now one of the simplest and most widely adopted control systems in the US market.

The DC voltage control signal can range between 0-10v. At 0 volts the light fixture is dimmed down to the lowest level allowed by the driver, and at 10 volts the light fixture is at its brightest level. Vode's AE drivers will dim down to 1.0% light output, while AT driver will dim down to 0.1% output.

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

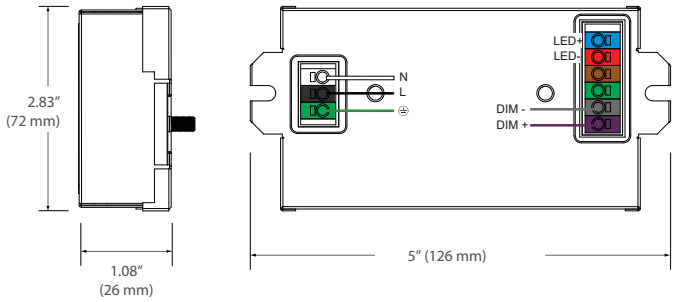
Technical Specifications for eldoLED OPTOTRONIC® **OTi25W/120-277/1A2/DIM-1/J** (25W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	25W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-35°C to 75°C (-31°F to 167°F)
LED output current range:	150 - 1,250mA
Output:	1x (8-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



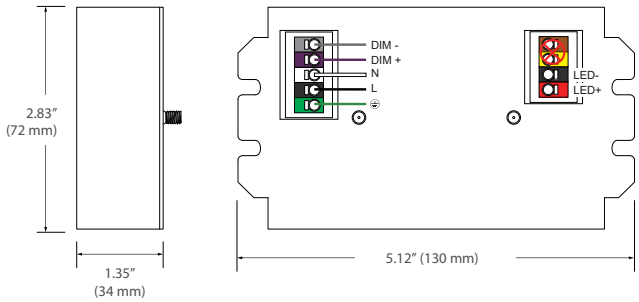
Technical Specifications for eldoLED ECOdrive **361/B** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	1x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



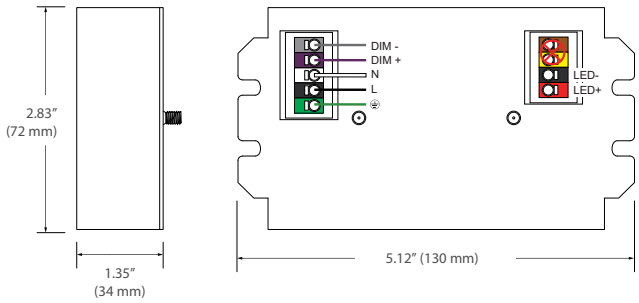
Technical Specifications for eldoLED ECOdrive **30B-M1Z0A** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	1x (2-42V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



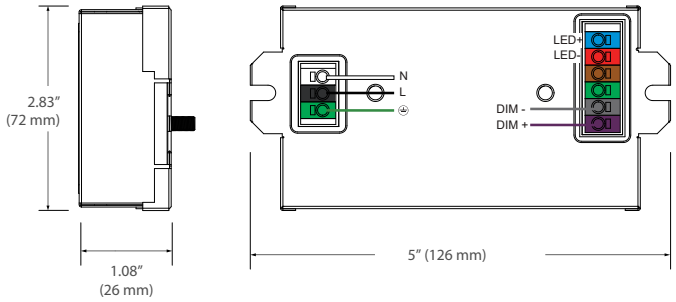
Technical Specifications for eldoLED OPTOTRONIC® **OTi40W/120-277/1A4/DIM-1/J** (40W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	40W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-35°C to 75°C (-31°F to 167°F)
LED output current range:	400 - 1,400mA
Output:	1x (8-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



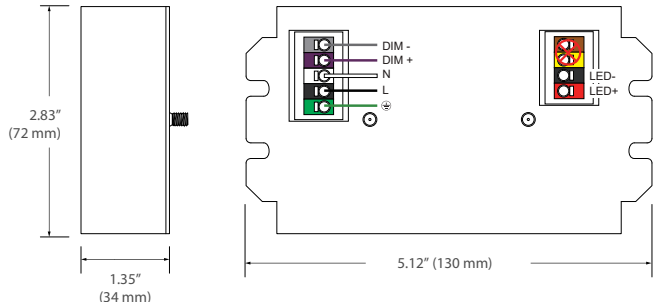
Technical Specifications for eldoLED ECOdrive **561/B** (50W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 45°C (-4°F to 113°F) ≤ 150-900 mA | -20°C to 40°C (-4°F to 104°F) for > 900 mA
LED output current range:	150 - 1,400mA
Output:	1x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



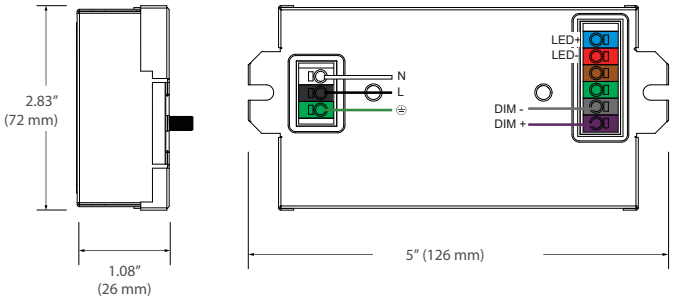
Technical Specifications for eldoLED OPTOTRONIC® **OTi55W/120-277/2A0/DIM-1/J** (55W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	55W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-35°C to 75°C (-31°F to 167°F)
LED output current range:	700 - 2,000mA
Output:	1x (10-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



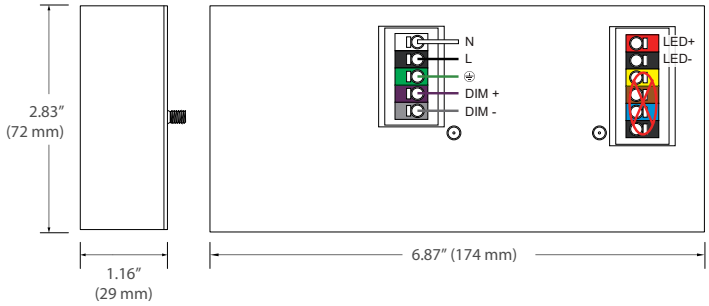
Technical Specifications for eldoLED ECOdrive **75B-M1A0A** (75W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	700 - 2,100 mA
Output:	1x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



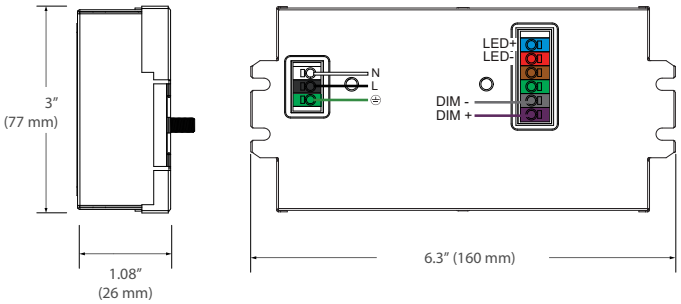
Technical Specifications for eldoLED OPTOTRONIC® **OTi75W/120-277/2A0/DIM-1/J** (75W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-35°C to 75°C (-31°F to 167°F)
LED output current range:	700 - 2,000mA
Output:	1x (20-54V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



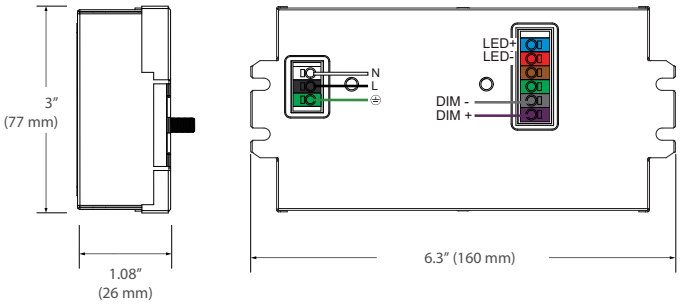
Technical Specifications for eldoLED OPTOTRONIC® **OTi95W/120-277/2A5/DIM-1/J** (95W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	95W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-35°C to 75°C (-31°F to 167°F)
LED output current range:	700 - 2,000mA
Output:	1x (20-54V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



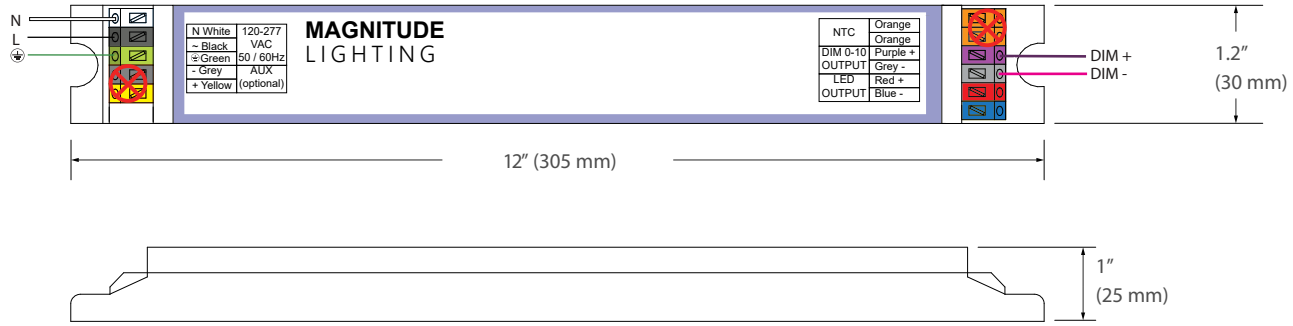
Technical Specifications for Magnitude **AFLEX-100W-1400-L-LF** (100W)

See madnitudeinc.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0% *(factory programmed from 0.1%)*
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)
LED output current range:	100 - 2000mA
Output:	1x (10-57V)
Remote Distance:	Up to 100' (30.5 m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



Optimized Driver Offerings

Vode offers optimized driver options to allow for the reduction of the number drivers provided per system. Driver requirements can vary depending on system configurations and/or power requirements and will be different than 1 to 1 power offerings.

The below drivers are only supplied with optimized driver system requests. Please request submittal drawings for exact driver specifications supplied with your order.

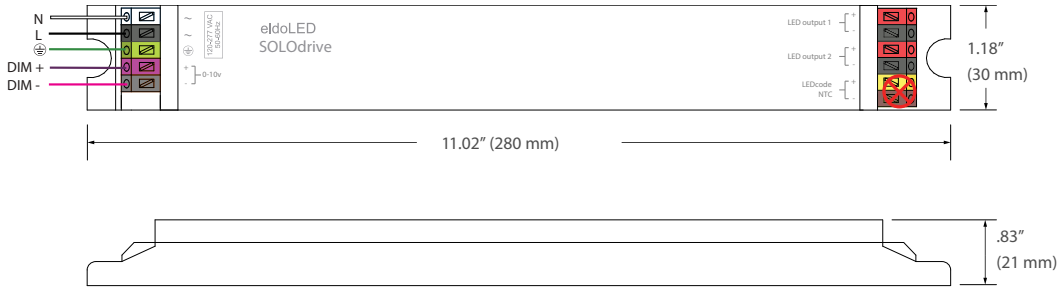
Technical Specifications for eldoLED SOLOdrive **30U-M2Z0A** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0% *(factory programmed from 0.1%)*
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



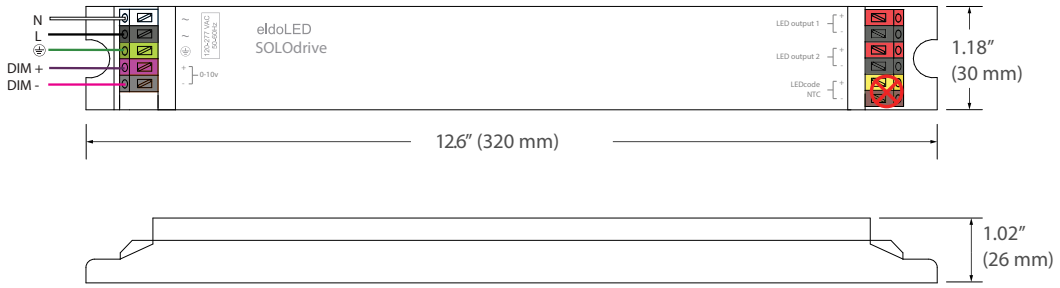
Technical Specifications for eldoLED SOLOdrive **561/L** (50W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0% *(factory programmed from 0.1%)*
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



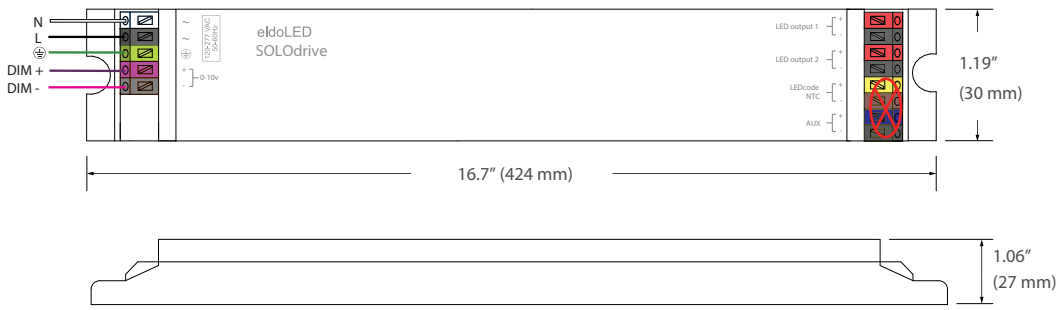
Technical Specifications for eldoLED SOLOdrive **75L-M2A0A** (75W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0% *(factory programmed from 0.1%)*
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



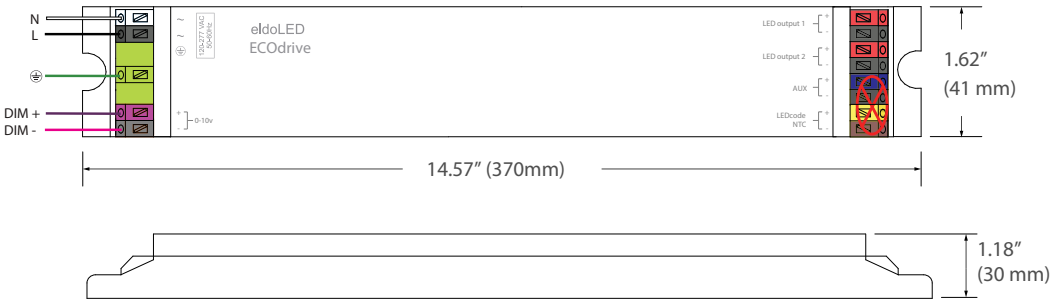
Technical Specifications for eldoLED ECOdrive **1066/M** (100W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 1.0%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W {MAX 77W per channel}
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400 mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



AT | 0-10v, 0.1% Dimming

0-10v Dimming, what is it?

0-10v dimming is an analog system that uses DC voltage to control the light output levels. This is one of the earliest dimming systems that was adapted from fluorescent fixtures to work with LED technology, and is now one of the simplest and most widely adopted control systems in the US market.

The DC voltage control signal can range between 0-10v. At 0 volts the light fixture is dimmed down to the lowest level allowed by the driver, and at 10 volts the light fixture is at its brightest level. Vode's AE drivers will dim down to 1.0% light output, while AT driver will dim down to 0.1% output.

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

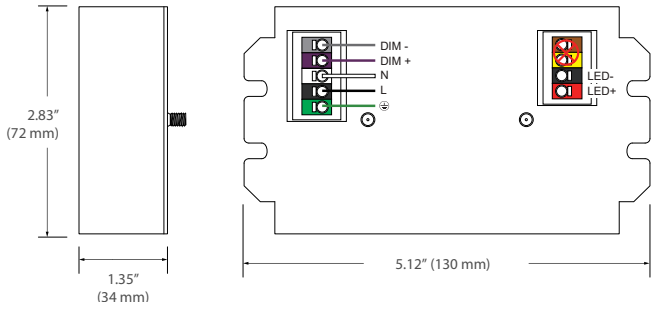
Technical Specifications for eldoLED SOLOdrive **361/B** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	1x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



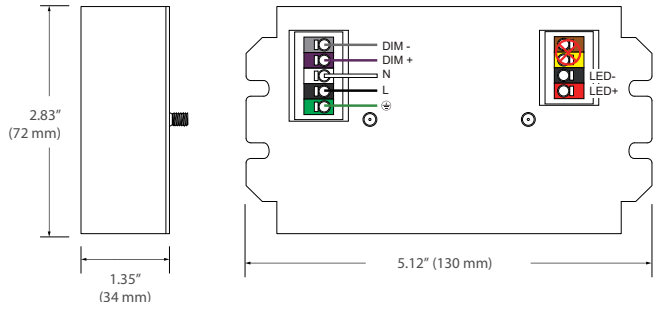
Technical Specifications for eldoLED SOLOdrive **SL30B-M1Z0A1** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	1x (15-42V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



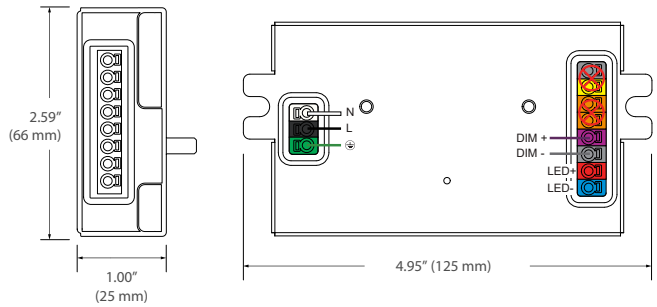
Technical Specifications for Magnitude **AFLEX-XX-1400-D-L** (various)

See Magnitude for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W (**AFLEX-30W-1400-D-L**), 50W (**AFLEX-50W-1400-D-L**), 60W (**AFLEX-60W-1400-D-L**)
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-40°C to 60°C (-40°F to 140°F)
LED output current range:	100 - 1,400mA
Output:	1x (3-57V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



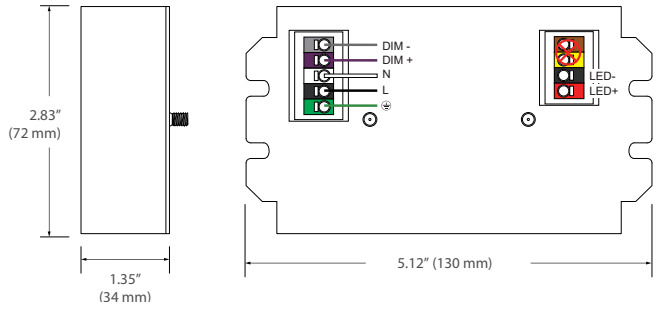
Technical Specifications for eldoLED SOLOdrive **564/B** (50W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 45°C (-4°F to 113°F) ≤ 150-900 mA | -20°C to 40°C (-4°F to 104°F) for > 900 mA
LED output current range:	150 - 1,400mA
Output:	1x (1.5-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



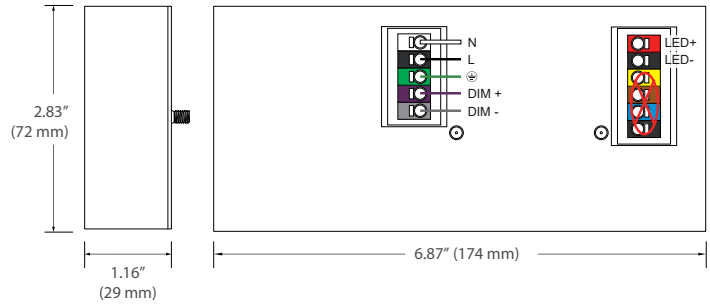
Technical Specifications for eldoLED SOLOdrive **75B-M2A0A** (75W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1400 mA
Output:	2x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



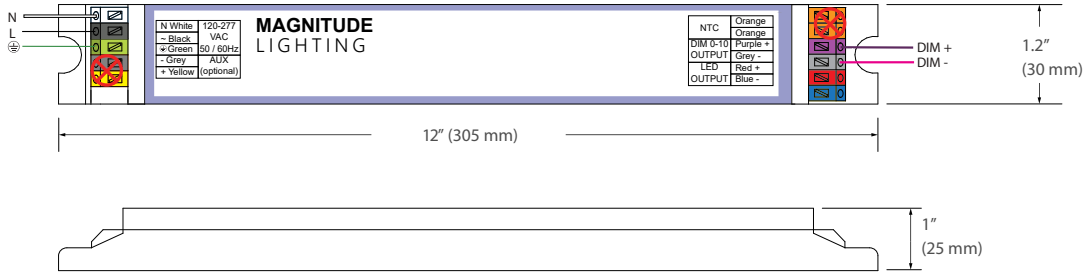
Technical Specifications for Magnitude **AFLEX-100W-1850-L-LC** (100W)

See magnitudeinc.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)
LED output current range:	100 - 2000mA
Output:	1x (3-50V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



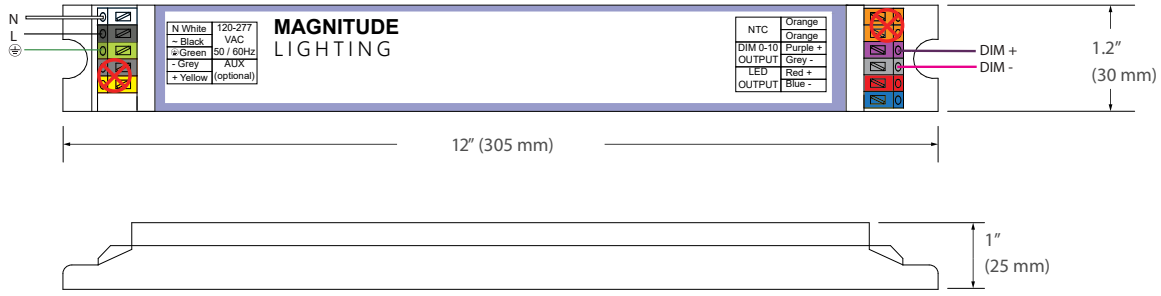
Technical Specifications for Magnitude **AFLEX-100W-1400-L-LF** (100W)

See madnitudeinc.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)
LED output current range:	100 - 2000mA
Output:	1x (10-57V)
Remote Distance:	Up to 100’ (30.5 m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



Optimized Driver Offerings

Vode offers optimized driver options to allow for the reduction of the number drivers provided per system. Driver requirements can vary depending on system configurations and/or power requirements and will be different than 1 to 1 power offerings.

The below drivers are only supplied with optimized driver system requests. Please request submittal drawings for exact driver specifications supplied with your order.

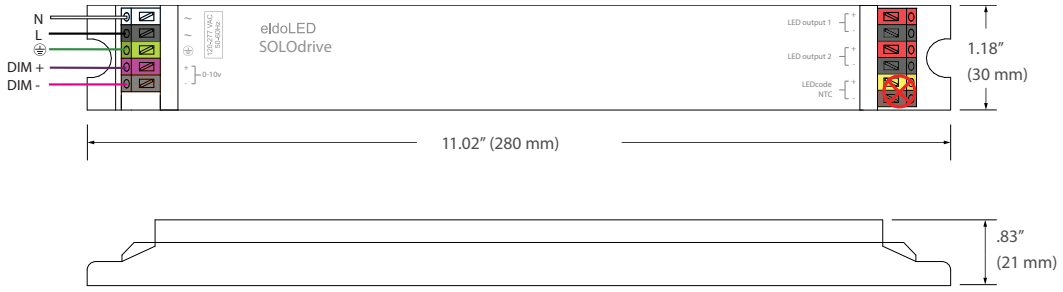
Technical Specifications for eldoLED SOLOdrive **30U-M2Z0A** (30W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



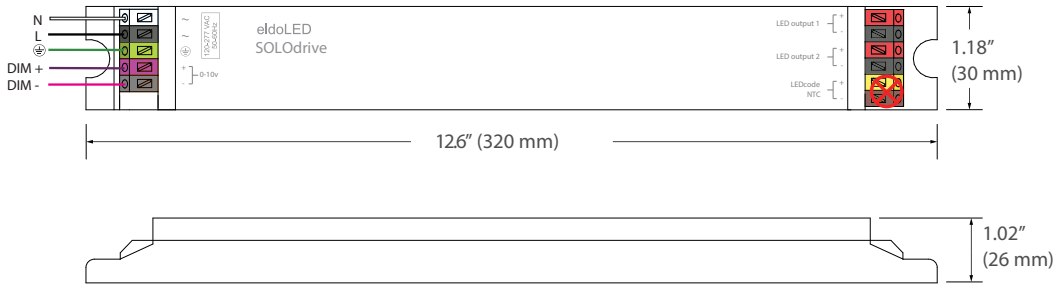
Technical Specifications for eldoLED SOLOdrive **561/L** (50W)

See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



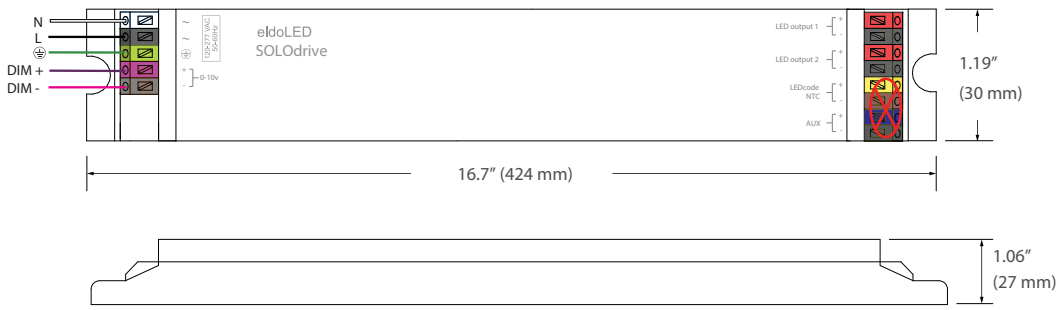
Technical Specifications for eldoLED SOLOdrive **75L-M2A0A** (75W)

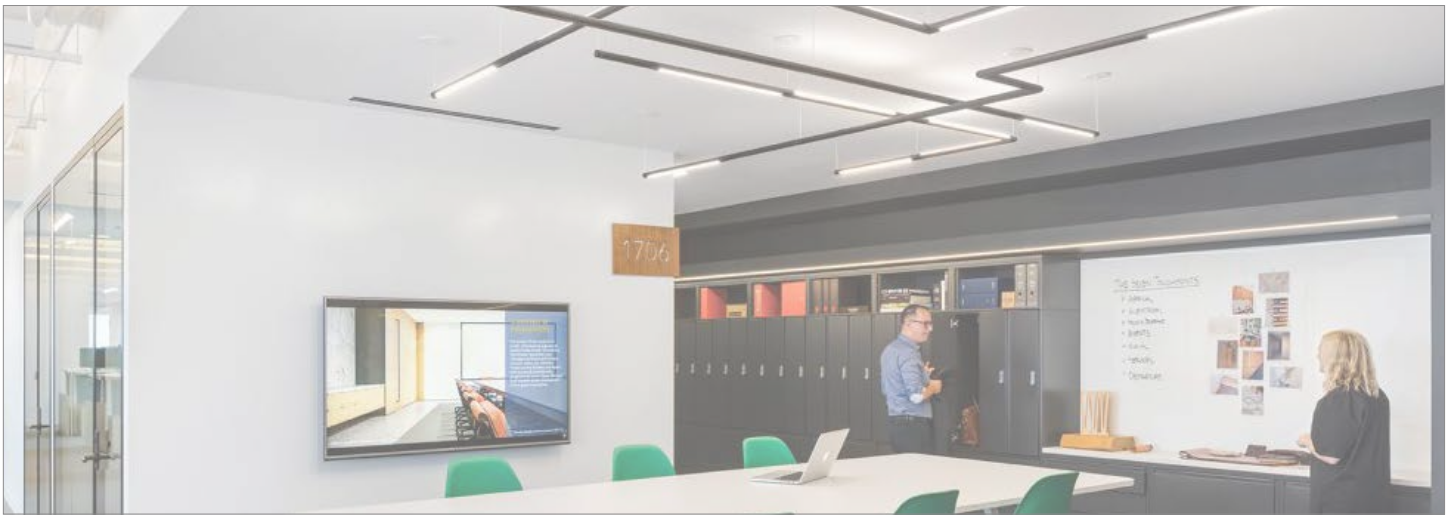
See eldoled.com for more information

Dimming Control:	0-10v (isolated)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale





AD | DALI, 0.1% Dimming

DALI Dimming, what is it?

DALI, or Digital Addressable Lighting Interface, is a low voltage dimming system that enables two-way communication between the controller and LED driver. Once the hardware has been installed, the system can be commissioned and addresses can be assigned. Devices are addressed independently or grouped depending on the type of control desired for a space. Digital lighting control allows for greater flexibility of a lighting system and its controls integration.

A global standard for DALI originated in Europe and has been adopted to the US market. The DALI standard is an open protocol, non-proprietary control system that allows for interoperability between manufacturers devices.

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

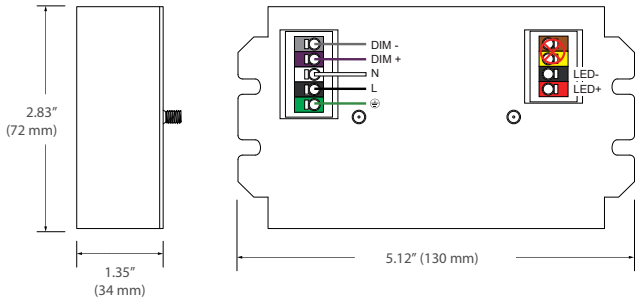
Technical Specifications for eldoLED SOLOdrive **360/B** (30W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	1x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



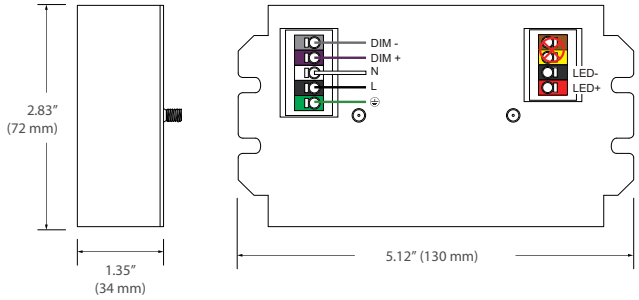
Technical Specifications for eldoLED SOLOdrive **563/B** (50W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 45°C (-4°F to 113°F) ≤ 150-900 mA | -20°C to 40°C (-4°F to 104°F) for > 900 mA
LED output current range:	150 - 1,400mA
Output:	1x (1.5-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



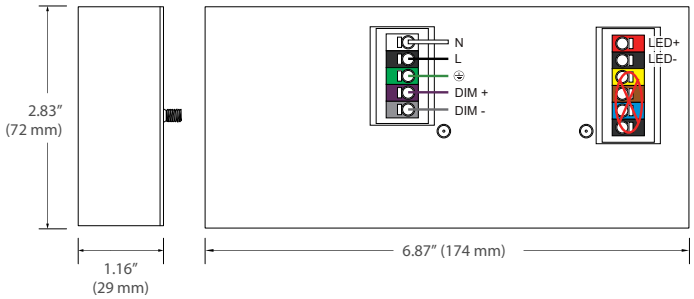
Technical Specifications for eldoLED SOLOdrive **75B-M2A0D** (75W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1400 mA
Output:	2x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



Optimized Driver Offerings

Vode offers optimized driver options to allow for the reduction of the number drivers provided per system. Driver requirements can vary depending on system configurations and/or power requirements and will be different than 1 to 1 power offerings.

The below drivers are only supplied with optimized driver system requests. Please request submittal drawings for exact driver specifications supplied with your order.

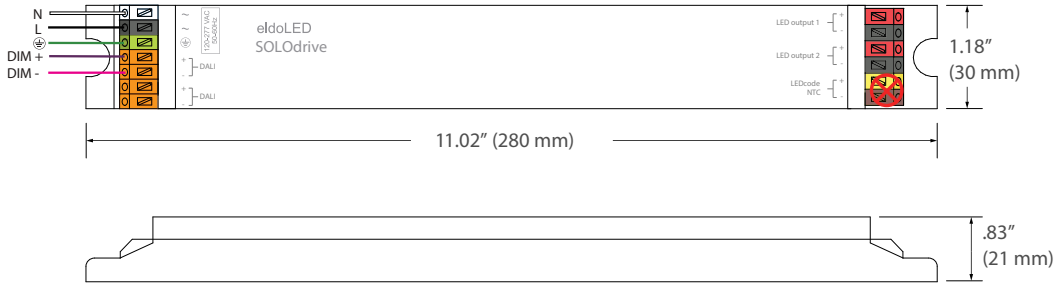
Technical Specifications for eldoLED SOLOdrive **30U-M2Z0D** (30W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	30W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



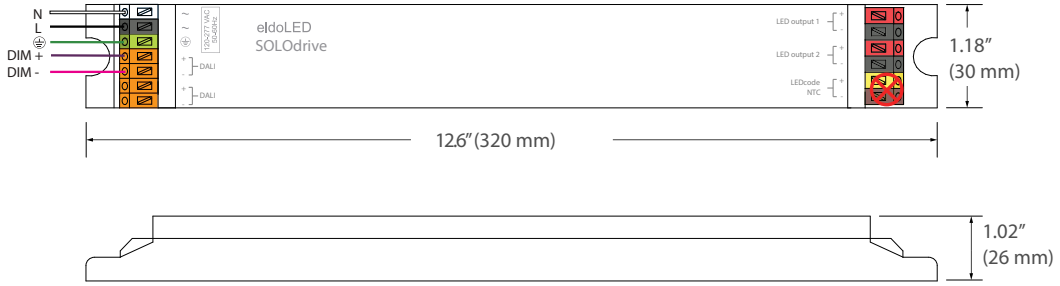
Technical Specifications for eldoLED SOLOdrive **560/L** (50W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



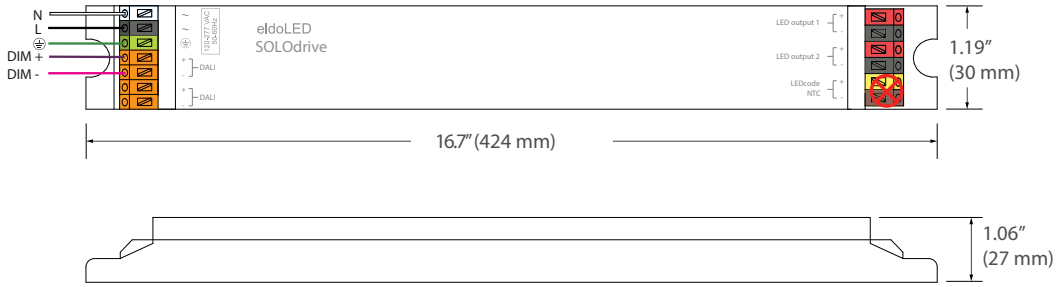
Technical Specifications for eldoLED SOLOdrive **760/L** (75W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



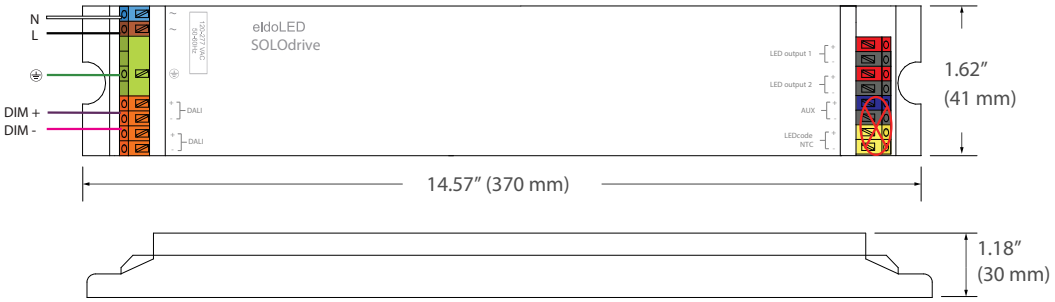
Technical Specifications for eldoLED SOLOdrive **1065/M** (100W)

See eldoled.com for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2), DT6
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	75W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	150 - 1,400mA
Output:	2 x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



AX | DMX, 100-0.1% Dimming

DMX Dimming, what is it?

DMX stands for Digital Multiplex Signal. This is a standard protocol for digital communication in a lighting system and is often used for dynamic color changing LED applications in architectural lighting. Similar to DALI, devices can be assigned addresses and controlled, but DMX can control a larger range of addresses and devices outside of lighting fixtures as well. The system requires dedicated cabling between the controller and the driver and specialized knowledge for commissioning, but it is a highly customizable control system and well suited for sophisticated lighting applications.

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

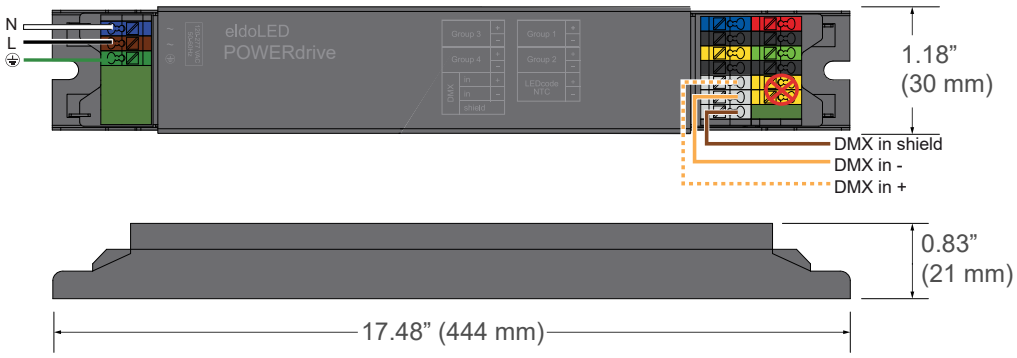
Technical Specifications for eldoLED POWERdrive **50U-M4Z0X** (50W)

See eldoled.com for more information

Dimming Control:	Digital Multiplex (DMX)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic/Square is available by request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-20°C to 50°C (-4°F to 122°F)
LED output current range:	200 - 1,050 mA
Output:	4x (2-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



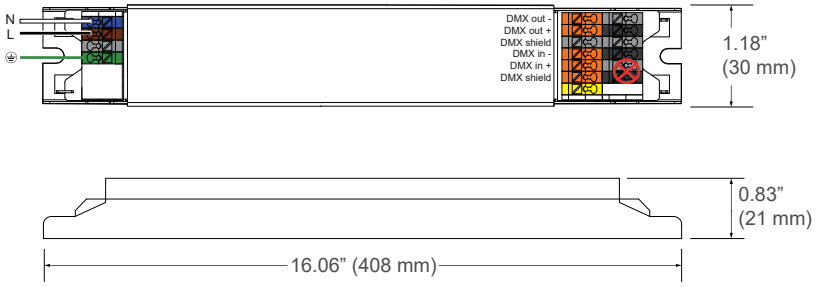
Technical Specifications for Moons **MU050S150BQI601** (50W)

See moons.com for more information

Dimming Control:	Digital Multiplex (DMX)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic/Square is available by request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-25°C to 60°C (-13°F to 140°F)
LED output current range:	200 - 1,500 mA
Output:	2x (8-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



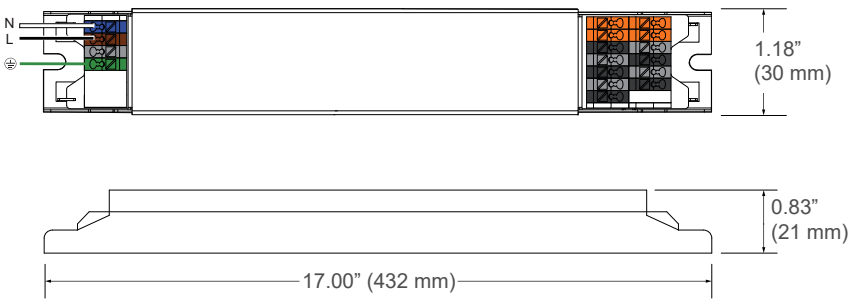
Technical Specifications for Moons **MU050S105DQI800** (50W)

See moons.com for more information

Dimming Control:	Digital Multiplex (DMX)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic/Square is available by request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-25°C to 60°C (-13°F to 140°F)
LED output current range:	200 - 1,500 mA
Output:	4x (8-55V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



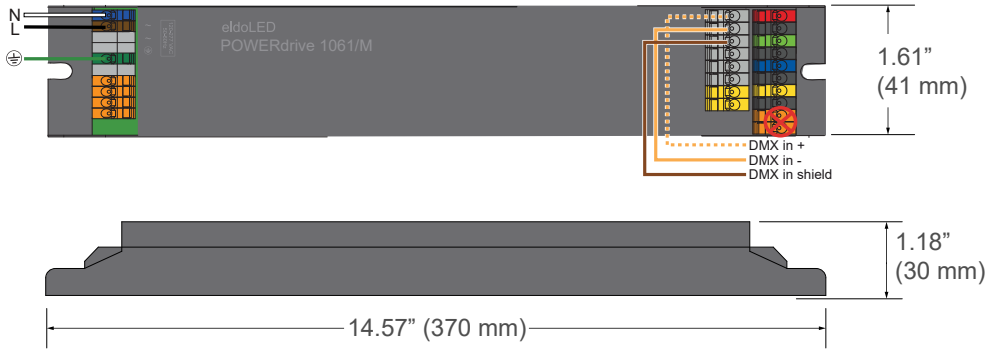
Technical Specifications for eldoLED POWERdrive **106/M** (100W)

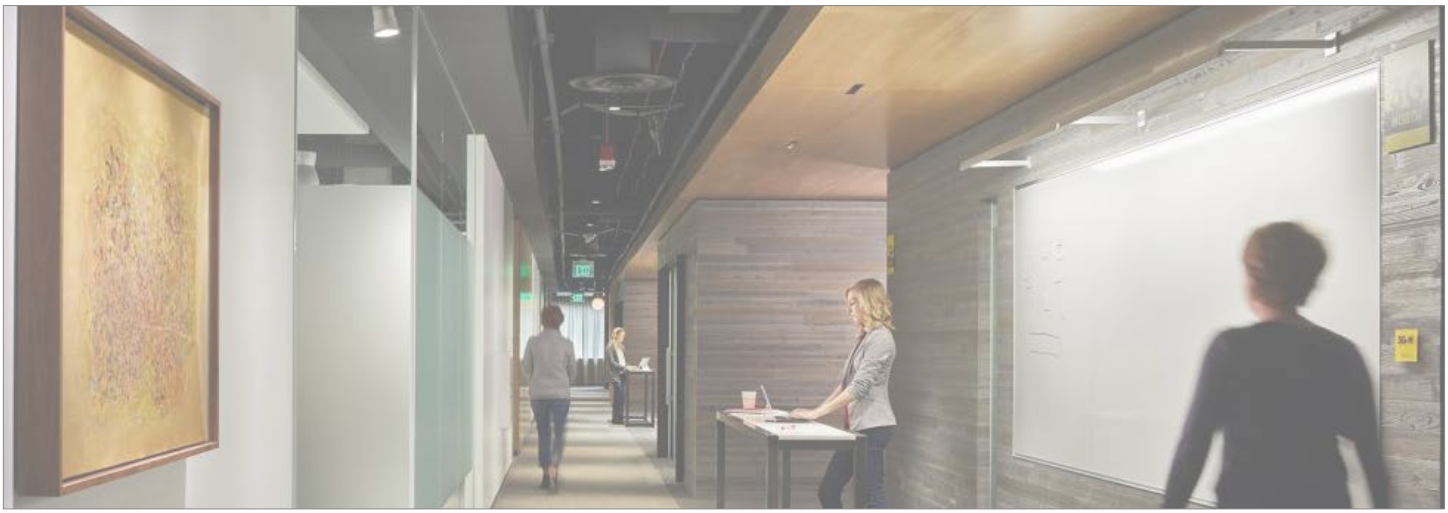
See eldoled.com for more information

Dimming Control:	Digital Multiplex (DMX)
Dimming Range:	100% to 0.1%
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic/Square is available by request.
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-40°C to 50°C (-40°F to 122°F)
LED output current range:	200 - 1,050 mA
Output:	4x (2-57V)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale





AH | Lutron, Hi-Lume 1% Dimming EcoSystem, Soft on / Fade to Black Technology, LDE1

LUTRON OEM ADVANTAGE

Lutron Soft on / Fade to Black, what is it?

Hi-lume 1% EcoSystem LED Drivers with Soft-on, Fade-to-Black provide a high-performance solution for any space, in any application. They provide smooth, continuous dimming down to 1% of full output current, and the Soft-on, Fade-to-Black fades smoothly between 0% and 1% when turned on and off for an incandescent-like experience. These drivers offer continuous, flicker-free dimming from 100% to 1% and accommodates zone and control changes without rewiring.

http://www.lutron.com/TechnicalDocumentLibrary/369832_ENG.pdf

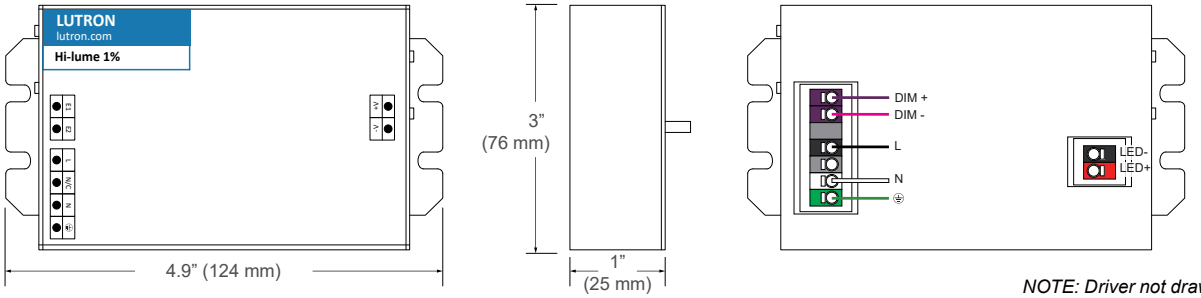
IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

Technical Specifications for **Lutron LDE1**

See lutron.com for more information

Dimming Control:	EcoSystem Digital
Dimming Range:	100% to 1%
Dimming Type:	Constant current reduction (CCR) to 5%, Pulse width modulation (PWM) below 5%
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	0°C to 75°C (32°F to 167°F)

Driver Wiring Information



NOTE: Driver not drawn to scale

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

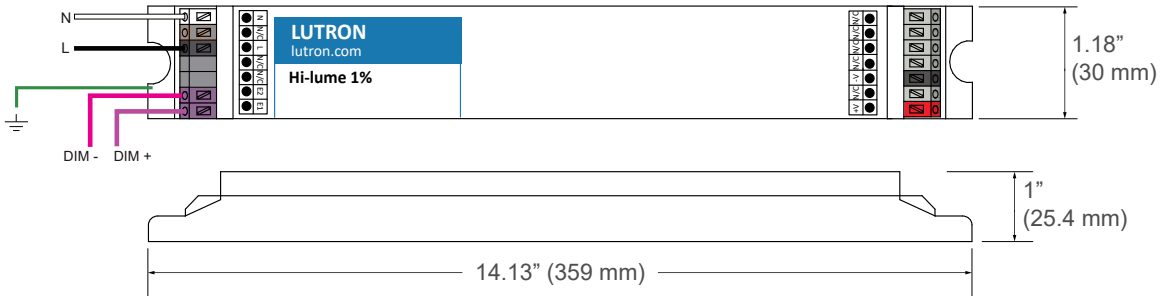
Technical Specifications for **Lutron LDE1**

See lutron.com for more information

Dimming Control:	EcoSystem Digital
Dimming Range:	100% to 1%
Dimming Type:	Constant current reduction (CCR) to 5%, Pulse width modulation (PWM) below 5%
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	0°C to 75°C (32°F to 167°F)

Driver Wiring Information

NOTE: Driver not drawn to scale



Remote Driver Distances

Remote Power
Vode Zipper Board™

107 | BoxRail®
107 | RaceRail®
107 | WingRail®
107 | DoubleBox™
107 | DoubleRace™

	12” (305mm)	24” (610mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	96” (2438mm)
Low Output	100' (30.5 m)						
Standard Output	100' (30.5 m)					75’ (22.9 m)	50' (15.2m)
High Output	100' (30.5 m)					25’ (7.6 m)	—

707 | ZipOne®
707 | ZipTwo®
707 | ZipThree® Surface Mount
707 | ZipThree® Ceiling Cable
907 | BoxRail®

	12” (305mm)	24” (610mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	96” (2438mm)
Low Output	—	100’ (30.5 m)					25’ (7.6 m)
Standard Output	100' (30.5 m)					75’ (22.9 m)	50' (15.2m)
High Output	100' (30.5 m)					25’ (7.6 m)	—

207 | BoxRail®

	24” (610mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	96” (2438mm)	120” (3048mm)	144” (3658mm)
Low Output	100' (30.5 m)					25’ (7.6 m)		
Standard Output	100' (30.5 m)				75’ (22.9 m)	25’ (7.6 m)		
High Output	100' (30.5 m)				25’ (7.6 m)	—	—	—

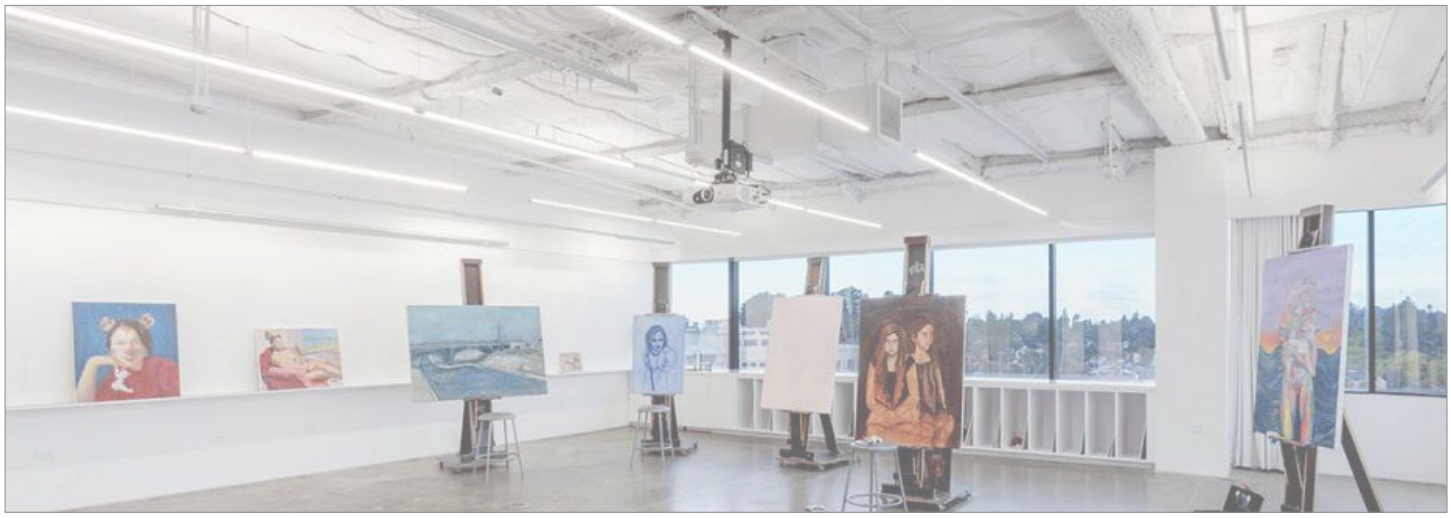
807 | Nexa

	24” (610mm)	30” (762mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	90” (2286mm)	96” (2438mm)
Very Low Output	—	—	100' (30.5 m)				25’ (7.6 m)	
Low Output	100' (30.5 m)						25’ (7.6 m)	
Standard Output	100' (30.5 m)					75’ (22.9 m)	25’ (7.6 m)	
High Output	100' (30.5 m)					25’ (7.6 m)		

Remote Power
Vode Button Board™

107 | BoxRail®
107 | WingRail®
907 | BoxRail®

	12” (305mm)	24” (610mm)	36” (914mm)	48” (1219mm)	60” (1524mm)	72” (1829mm)	96” (2438mm)
Standard Output	100' (30.5 m)						
High Output							



AH2 | 1% 2-wire Dimming

1% 2-Wire Dimming, what is it?

ELV: ELV stands for Electronic Low Voltage. An ELV dimmer is known by a number of names. ELV dimmers are also called simply “electronic dimmers”, as well as “trailing edge dimmers”. These names come from the way in which this dimmer transitions your LED’s luminosity.

https://www.erp-power.com/how-elv-dimmers-work/#:~:text=ELV%20stands%20for%20Electronic%20Low,dimmer%20transitions%20your%20LED's%20luminosity.

IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

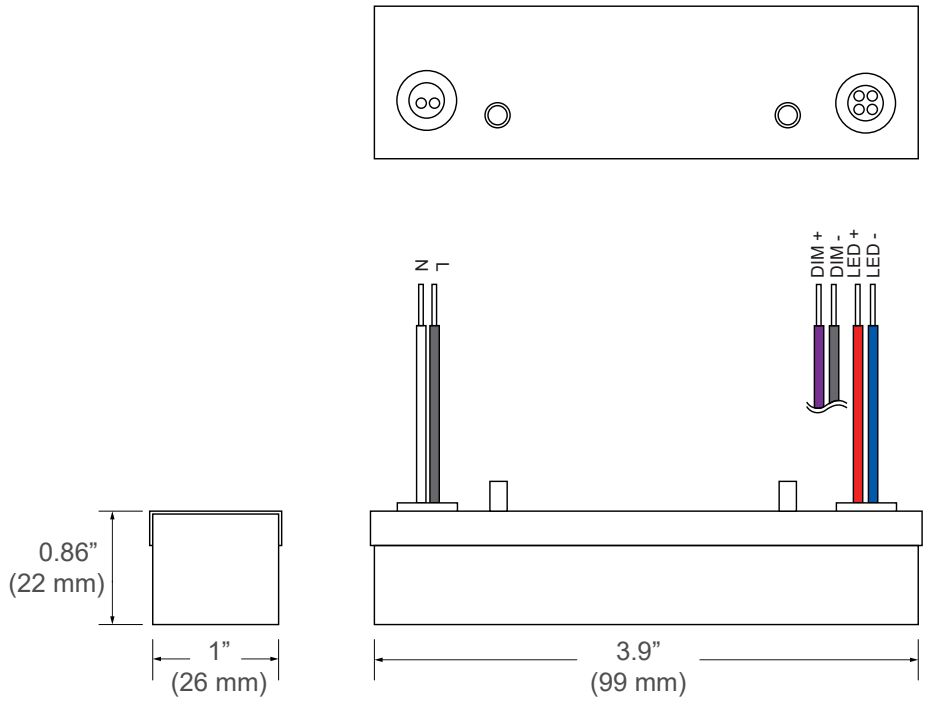
Technical Specifications for **ERP PSB Series** Back Feed

See erp.com for more information

Dimming Control:	0-10v, TRIAC & ELV`
Dimming Range:	100% to 1%
Input Voltage:	120V & 277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-10°C to 50°C (14°F to 122°F)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



IMPORTANT: Vode uses a variety of drivers to meet specific requirements of each LED product. Due to differing wattage or voltage of each rail, different drivers may be required in order to properly operate each rail type.

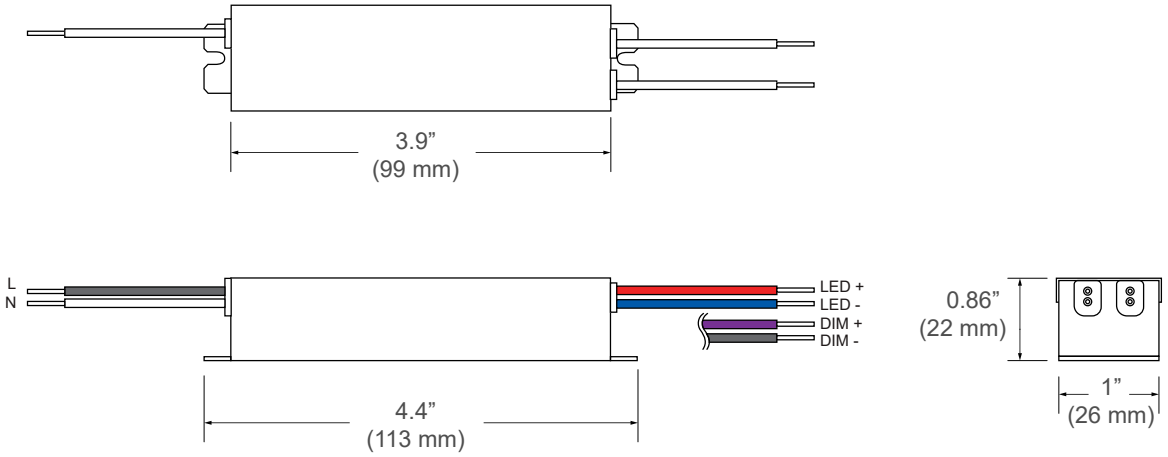
Technical Specifications for **ERP PSB Series** Side Feed

See erp.com for more information

Dimming Control:	0-10v, TRIAC & ELV`
Dimming Range:	100% to 1%
Input Voltage:	120V & 277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-10°C to 50°C (14°F to 122°F)
Remote Distance:	Up to 100' (30.5m) from LED source

Driver Wiring Information

NOTE: Driver not drawn to scale



AH2 Length Limitations

NOTE: Fixture lengths are calculated for AE, AT, AD, AH and AX driver options.

707 | ZipOne®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	X	✓	✓
60”	X	✓	X
72”	X	✓	X
96”	✓	X	X

107 | RaceRail® - WingRail® - BoxRail®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	✓	✓	✓
60”	✓	✓	X
72”	X	✓	X
96”	X	X	X

707 | ZipTwo®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	✓	✓	✓
60”	X	✓	X
72”	X	✓	X
96”	✓	X	X
108”	✓	X	X
120”	✓	X	X
132”	✓	X	X
144”	✓	X	X

207 | BoxRail®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	✓	✓	✓
60”	X	✓	X
72”	X	✓	X
96”	✓	X	X
108”	✓	X	X
120”	✓	X	X
132”	✓	X	X
144”	✓	X	X

707 | ZipThree®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	X	✓	✓
60”	X	✓	X
72”	X	✓	X
96”	✓	X	X

907 | BoxRail®

Rail Length (in)	LO	SO	HO
12”	X	X	X
24”	X	X	✓
36”	✓	✓	✓
48”	✓	✓	✓
60”	✓	✓	X
72”	X	✓	X
96”	X	X	X

AH2 Length Limitations

NOTE: Fixture lengths are calculated for AE, AT, AD, AH and AX driver options.

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Rail Length (in)	VLO	LO	SO	HO
12”	X	X	X	X
24”	X	X	X	✓
36”	X	✓	✓	✓
48”	X	✓	✓	✓
60”	X	X	✓	X
72”	X	X	✓	X
96”	X	✓	X	X
108”	X	✓	X	X
120”	X	✓	X	X
132”	X	✓	X	X
144”	X	✓	X	X