



# Tunable White & Dim to Warm

Guide to Vode's Tunable White. Enhance the workspace using Vode's Tunable White, available on all systems.

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# Introduction

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## Tunable White

Tunable white enables the color temperature to be adjustable from **2200K - 5000K**, Vode's standard range. Vode fixtures use a 2-channel LED board to provide a range of color temperatures. Vode Zipper Boards have 72 LEDs per foot, (36) 2200K and (36) 5000K. Contact factory if a different color range is required.



Tunable white can be used to alter a space where color temperature is critical to the design, such as retail, hospitality, and healthcare.

## Dim to Warm

Dim to warm enables the color temperature to be adjustable from **2200K-3000K**. Dim to Warm is designed to replicate the feeling of dimming an incandescent light. Vode fixtures use a 2-channel LED board to provide a range of color temperatures. Vode Dim to Warm Zipper Boards have 72 LEDs per foot, (36) 2200K and (36) 3000K.



Dim to warm is often used in hospitality, residential, and restaurant applications.



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

## System 107

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System Code	107				
Single/Double Rail	01				
Rail Type	BX	RR	WG	DB	DR
Rail Length	24	36	48	60	72 96
Mounting	WA	CA	TA	CC	
LED Type	Z				
Lumen Output	LO	SO	HO		

### Additional Information

1. Arm mount (CA, WA, TA) available as individual rails or continuous systems
2. Not available with Cord & Plug and on/off switch options
3. WingRail not available with baffle
4. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

## System 117

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System Code	117		
Single/Double Rail	K1	K2	
Rail Type	BX	RR	WG
Rail Length	24	36	48 60 72
Mounting	ST		
LED Type	Z		
Lumen Output	LO	SO	HO

### Additional Information

1. 24" and 36" rails lengths not available in Double Rails (K2)
2. WingRail not available with baffle
3. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

## System 207

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System Code	207							
Rail Type	BX							
Rail Length	24	36	48	60	72	96	120	144
Mounting	CC							
LED Type	Z							
Lumen Output	LO	SO	HO					

### Additional Information

1. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

## System 707

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System Code	707										
Rail Type	Z1	Z2	Z3	Z9							
Rail Length	24	36	48	60	72	96	108	120	132	144	
Mounting	SL	CC									
LED Type	Z										
Lumen Output	LO	SO	HO								

### Additional Information

1. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

## System 807

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System Code	807												
Rail Type	NEX3	NEX5											
Rail Length	24	36	30	48	60	72	90	96	108	120	132	144	
Mounting	SL	RS											
LED Type	Z												
Lumen Output	VLO	LO	SO	HO									

### Additional Information

1. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

## System 907

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System Code	907				
Rail Type	BX				
Rail Length	24	36	48	60	72
Mounting	F1S	R1B	R2S		
LED Type	Z				
Lumen Output	LO	SO	HO		

### Additional Information

1. Follow standard rail length and mounting configurations. Contact Vode for assistance specifying

# Controlling Tunable White

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Vode recommends using eldoLED DUAL drive DALI power supply for tunable white systems in the following methods:

## **0-10V Applications:**

- Supplied with an eldoLED translator (SC4202L) to convert 0-10v single to DALI.
- Driver and translator supplied in one 4.15" x 2.05" x 20 metal housing.
- 0-10V controller provided by others
- 0.1% or 1% dimming available
- One driver per rail section
- Two wire harnesses per rail section provided as standard

## **DALI Applications:**

- The DALI power supply unit (PSU) and controller provided by others
- 0.1% Dimming
- One driver per rail section
- Two wire harnesses per rail section provided as standard

## **nLight Lighting Control Platform:**

- Utilizes the eldoLED DUALdrive with nIO device
- eldoLED LEDcode Dimmer and controller provided by others
- 0.1% dimming
- One driver per rail section
- Two wire harnesses per rail section provided as standard

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The above power and controls is what Vode recommends however, Vode tunable white systems are also compatible with the following power supplies.

## **Lutron (AH & AH2)**

- Two drivers provided per rail section
- Light shaping commissioning by others. Without commissioning, one controller (dimmer) per driver is required
- Controller provided by others
- 1% dimming
- Two wire harnesses per rail section provided as standard

## **eldoLED DMX (AX)**

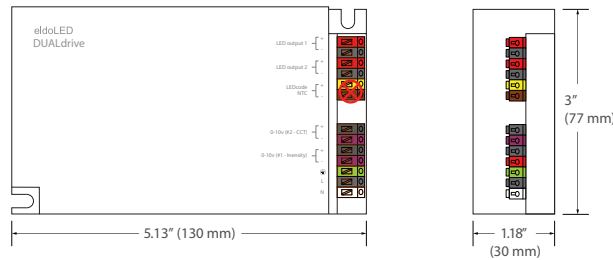
- One driver per rail section
- Light shaping commissioned by others
- Controller provided by others
- 100-0.1% dimming
- Two wire harnesses per rail section provided as standard

## Technical Specifications for eldoLED DUALdrive 561/S (50W)

[See eldoled.com for more information](http://See eldoled.com for more information)

Dimming Control:	0-10V
Dimming Range:	100% to 0.1% (Factory Programmed to 1% upon request)
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 and Sizing Information



NOTE: Driver not drawn to scale

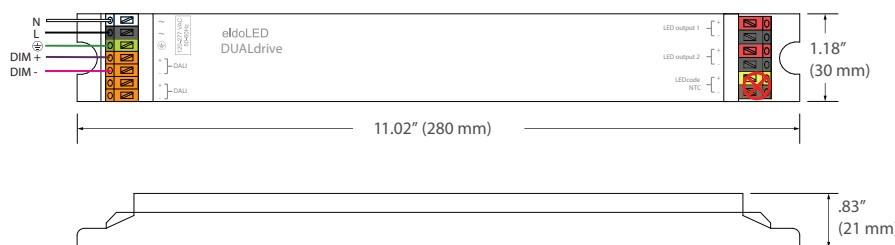
## Technical Specifications for eldoLED DUALdrive 360/U (30W)

[See eldoled.com for more information](http://See eldoled.com for more information)

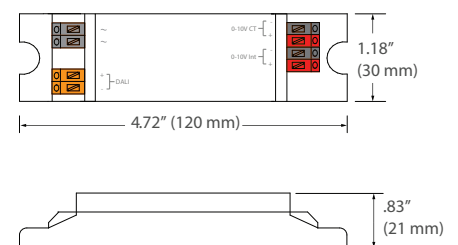
Dimming Control:	DALI-2
Dimming Range:	100% to 0.1% (Factory Programmed to 1% upon request)
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	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 and Sizing Information

DUALDrive 360/U



SC4202L1 - Translator Included for 0-10V systems



NOTE: Driver not drawn to scale



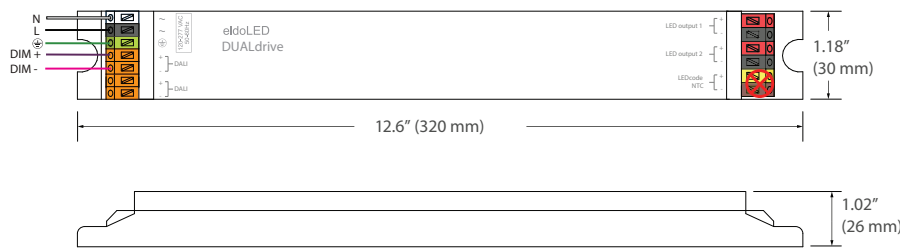
## Technical Specifications for eldoLED DUALdrive 560/L (50W)

[See eldoled.com for more information](http://See eldoled.com for more information)

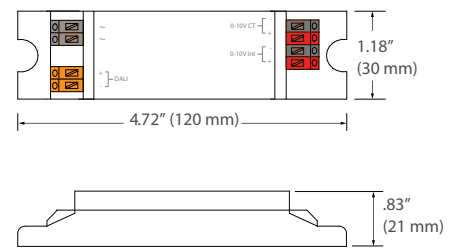
Dimming Control:	DALI-2
Dimming Range:	100% to 0.1% (Factory Programmed to 1% upon request)
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	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 and Sizing Information

DUALDrive 560/L



SC4202L1 - Translator Included for 0-10V systems



NOTE: Driver not drawn to scale

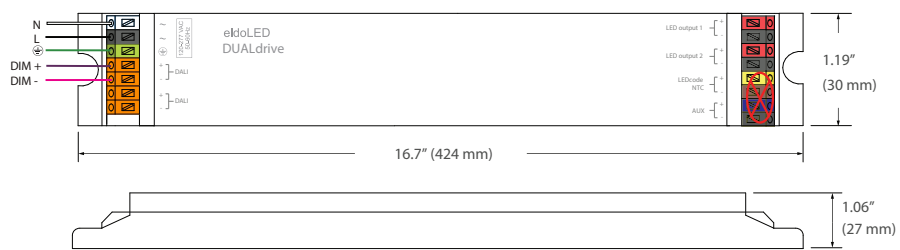
## Technical Specifications for eldoLED DUALdrive 760/L (75W)

[See eldoled.com for more information](http://See eldoled.com for more information)

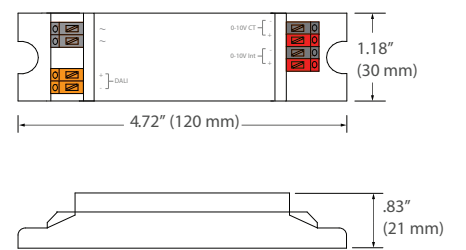
Dimming Control:	DALI-2
Dimming Range:	100% to 0.1% (Factory Programmed to 1% upon request)
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	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 and Sizing Information

DUALDrive 760/L



SC4202L1 - Translator Included for 0-10V systems



NOTE: Driver not drawn to scale

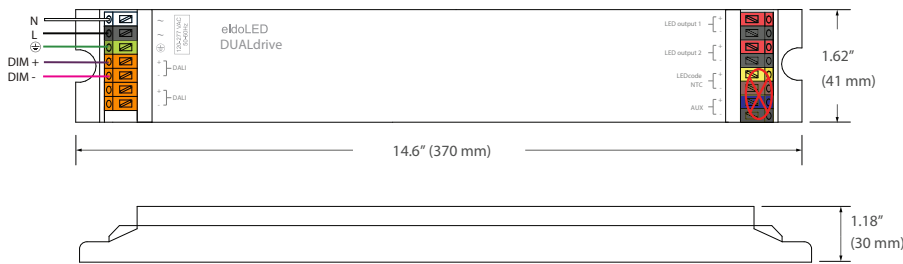
## Technical Specifications for eldoLED DUALdrive 1065/M (100W)

[See eldoled.com for more information](http://See eldoled.com for more information)

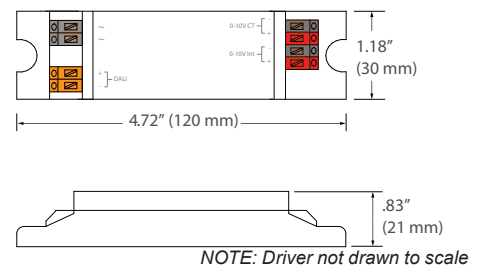
Dimming Control:	DALI-2
Dimming Range:	100% to 0.1% (Factory Programmed to 1% upon request)
Dimming Curve:	Driver dimming curve is factory preset to linear. Logarithmic is available upon request
Dimming Type:	Analog, hybrid of constant current reduction (CCR) and pulse width modulation (PWM)
Wattage:	100W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
Operating Temperature:	-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 and Sizing Information

DUALdrive 1065/U



SC4202L1 - Translator Included for 0-10V systems

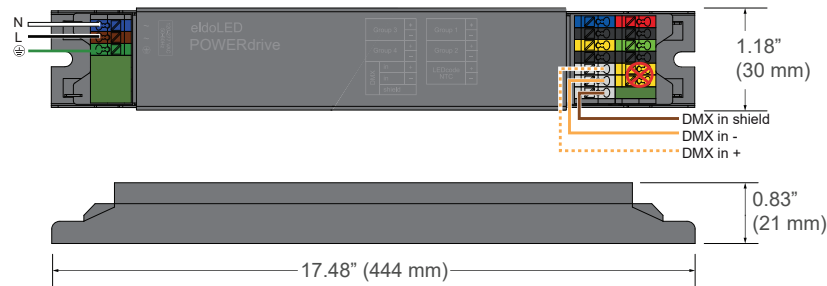


## Technical Specifications for eldoLED POWERdrive 50U-M4Z0X (50W)

[See eldoled.com for more information](http://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 and Sizing Information



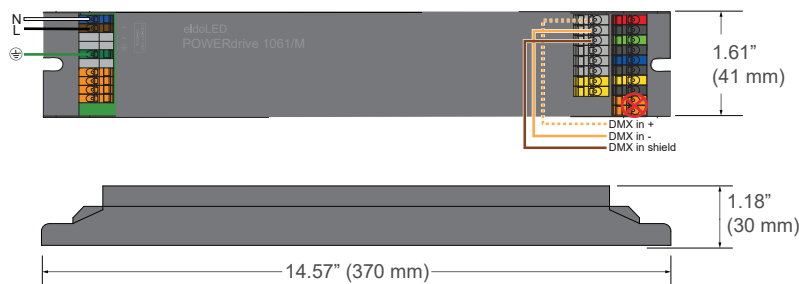
NOTE: Driver not drawn to scale

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

[See eldoled.com for more information](http://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 and Sizing Information



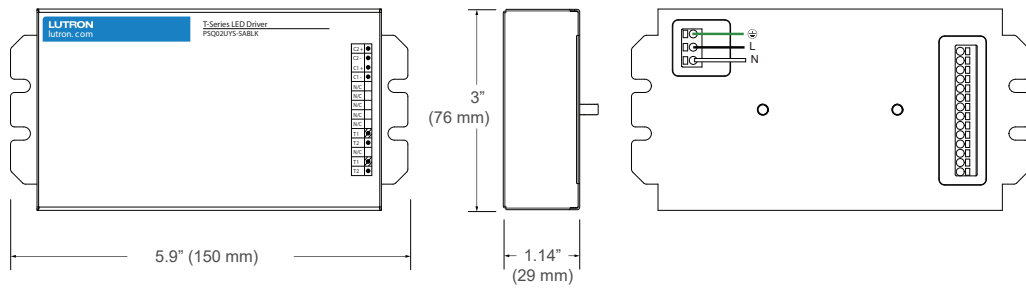
NOTE: Driver not drawn to scale

## Technical Specifications for Lutron T-Series **PSQ02UYS-5ABLK** (50W)

[See lutron.com for more information](http://See lutron.com for more information)

Dimming Control:	Compatibility with T-Series Energi Savr Node as a part of a Quantum system
Dimming Range:	100% to 0.1%
Wattage:	50W
Input Voltage:	Universal 120-277V, 50/60 Hz.
Type:	Constant current, Class 2
LED output current range:	200 - 1,500 mA
Output:	2x (8-54V)

## Driver Wiring and Sizing Information



*NOTE: Driver not drawn to scale*

# Controlling DIM to WARM

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## **0-10V Applications**

- 0-10V controller provided by others.
- 0.1% dimming.
- One driver per rail section.
- Two wire harnesses per rail section provided as standard.

## **DALI Applications**

- The DALI power supply unit (PSU) and controller provided by others.
- 0.1% dimming.
- One driver per rail section.
- Two wire harnesses per rail section provided as Standard.

## **nLight Lighting Controls Platform**

- Utilizes the eldoLED DUALdrive with nIO device
- eldoLED LEDcode dimmer and controller provided by others.
- 0.1% dimming.
- One driver per rail.
- Two wire harnesses per rail section provided as Standard.

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The above power & controls is what Vode recommends however, Vode warm dim systems are also compatible with the following power supplies, if required by customer.

## **eldoLED DMX (AX)**

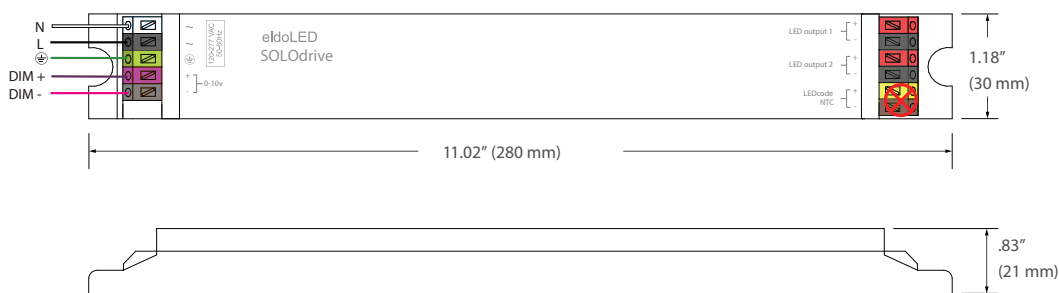
- One driver per rail section.
- Light shaping commissioning by others.
- Controller provided by others.
- 100-0.1% dimming.
- Two wire harnesses per rail section provided as standard.
- High Output (HO) not available.

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

[See eldoled.com for more information](http://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



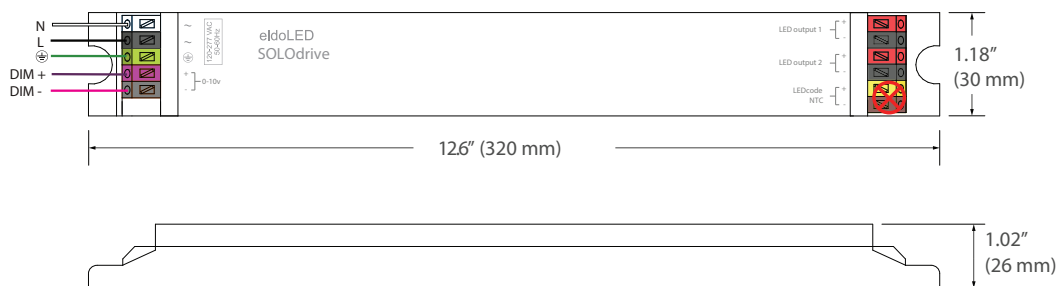
NOTE: Driver not drawn to scale

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

[See eldoled.com for more information](http://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



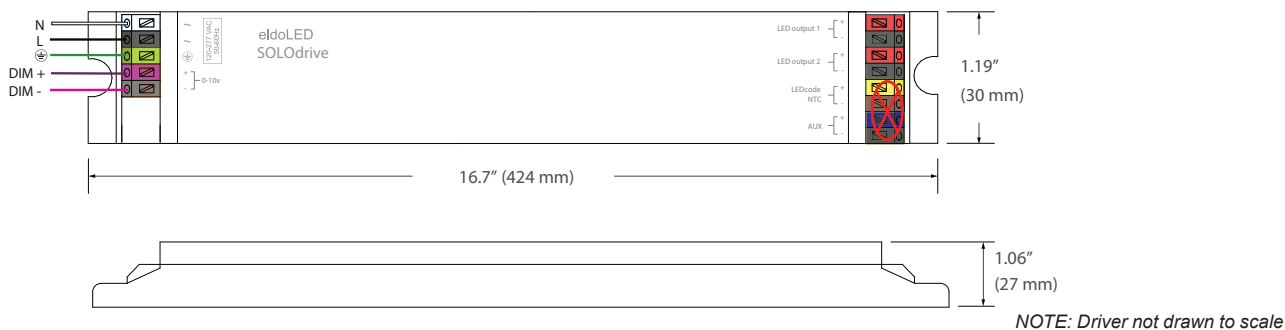
NOTE: Driver not drawn to scale

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

See [eldoled.com](http://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

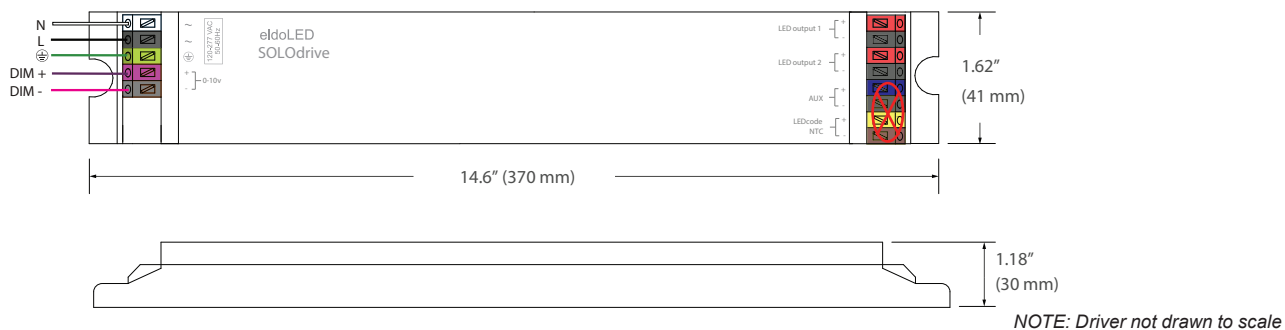


## Technical Specifications for eldoLED SOLOdrive 1066/M (100W)

See [eldoled.com](http://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:	100W
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

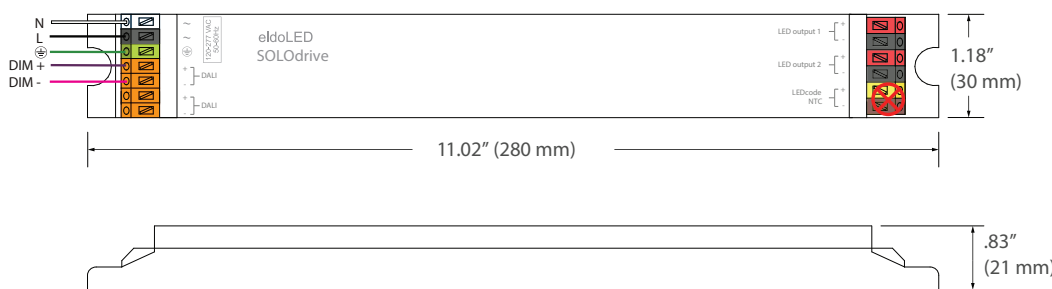


## Technical Specifications for eldoLED SOLOdrive **30U-M2Z0D** (30W)

See [eldoled.com](http://eldoled.com) for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2)
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



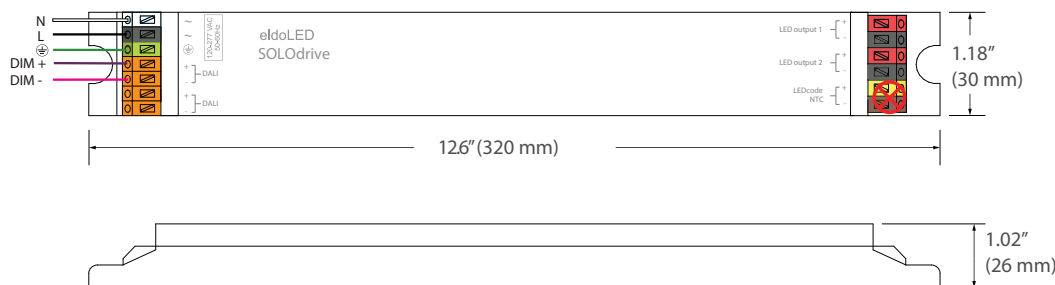
NOTE: Driver not drawn to scale

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

See [eldoled.com](http://eldoled.com) for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2)
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

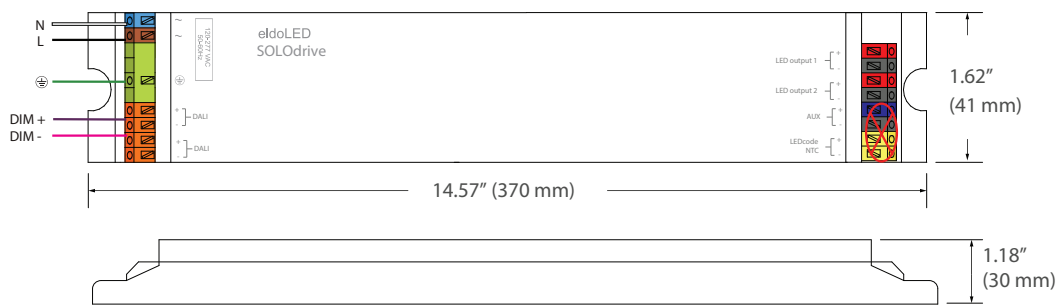


## Technical Specifications for eldoLED SOLOdrive 1065/M (100W)

See [eldoled.com](http://eldoled.com) for more information

Dimming Control:	Digital Addressable Lighting Interface (DALI-2)
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