

Ldrive 32W

Constant Current Wattage Selectable Tunable LED Driver



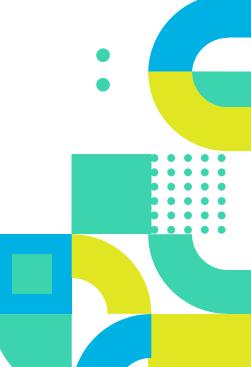












Product Overview

Ldrive 32W is a dual-channel constant current LED driver with selectable output current. It is a part of the Lumos Controls ecosystem, comprising controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. The device can be configured, commissioned, and controlled from any mobile device super-quick and can connect to the Lumos Controls cloud for data analytics.

The device operates on 220-240V AC input voltage range has a maximum output power of 32W. This high efficiency driver protects from short circuit, overload, no-load and surge.

The ecosystem is listed by the **Design Lights Consortium (DLC)**, qualifying it for energy conservation incentive programs and rebates by utility companies.

Features

- Selectable constant LED current through dip switch
- High efficiency >85% and low THD <15%
- Power factor greater than 0.9
- Overload, short circuit, no load and surge protection
- BLE 4.2 based non-flooding intelligent communication
- Zero downtime Over-the-Air (OTA) firmware updates

Specifications

Electrical

Value	Remarks
220-240 VAC	
198-264 VAC	
50-60Hz	
0.18 A	230V, 50Hz, Full load @800mA output current
37.2W	230V, 50Hz, Full load @800mA output current
1.35W	230V, 50Hz, No load
32W	
85%	230V, 50Hz, Full load @800mA output current
0.95	230V, 50Hz, Full load @800mA output current
450-800mA	Adjusted by dip switch
±7.5%	
50V	
30-40VDC	
<15%	230V, 50Hz, Full load @800mA output current
	220-240 VAC 198-264 VAC 50-60Hz 0.18 A 37.2W 1.35W 32W 85% 0.95 450-800mA ±7.5% 50V 30-40VDC

Specifications	Value	Remarks
Output LF current ripple	±5%	<120Hz
Turn on delay	<1s	230V, 50Hz, Full load
Inrush current	13.16A	13.16A/112us 240V, 50Hz, Full load
Burst protection voltage	1kV	
Surge transient protection	1kV 2kV	@Line to Neutral @Line/Neutral to Earth
Dimming range	0-100%	1000 steps resolution
Dimming curve	linear (default)/ logarithmic	

Bluetooth

Specifications	Value	Remarks
Frequency range	2402-2480MHz	
Max output power	7dBm	
Receive sensitivity	-92dBm	
Connection distance (device to device)	45m(147.6 ft)	Vary depending on the installation enviornment

Environmental

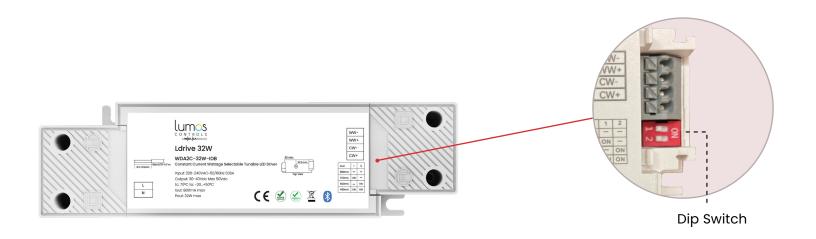
Specifications	Value	
Operating temperature	-30 to 55°C (-22 to 122°F)	@Life-time 50,000h
Case temperature	80°C (176°F)	
Storage temperature	-40 to 80°C (-40°F to 176°F)	
Relative humidity	5-85%	
Lifetime	50,000h	@50°C
IP rating	IP20	Indoor use only

Mechanical

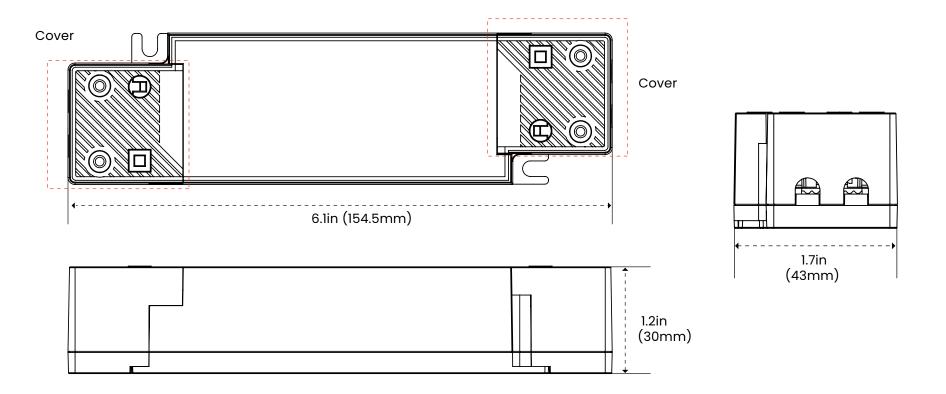
Specifications	Value	Remarks
Dimension	6.1 x 1.7 x 1.2inch (154.5 x 43 x 30mm)	LxWxH
Weight	202.3g (7.135oz)	
Case material	Polycarbonate	White
Flammability rating	UL 94 V-0	

Output Current Setting Using Dip Switch

Max Output	Output Voltage	Output Current	Status of Dip Switch	
Power			1	2
18W	30-40V	450mA	ON	ON
24W		600mA		ON
28W		700mA	ON	
32W		800mA		



Product Dimensions



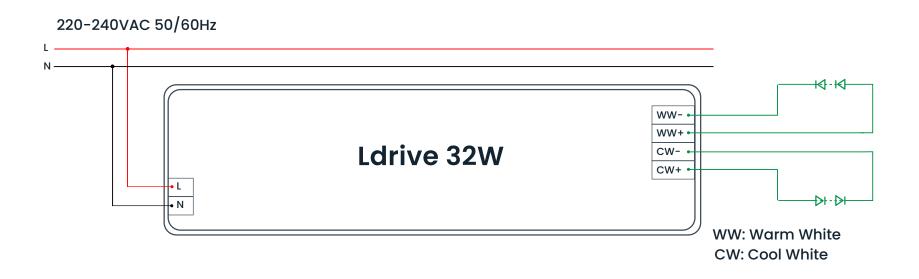
Connector Description



Pin	Symbol	Description		
0	L	AC Input Line		
2	N	AC Input Neutral		
3	WW-	Warm White-		
4	WW+	Warm White+		
5	CW-	Cool White-		
6	CW+	Cool White+		

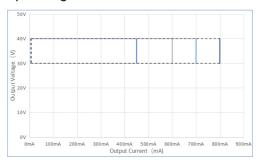
Wiring

The wiring can be in stranded wires with ferrules or solid with a cross section of 16-18AWG (0.75-1.5sq.mm). Strip 8.5-9.5 mm of insulation from the cables to ensure perfect operation of the push-wire terminals. Use one wire for each terminal connector.

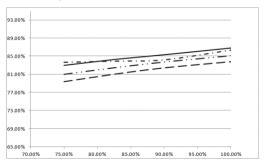


Electrical Values

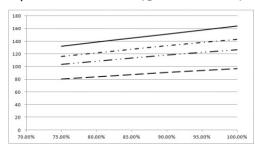
Operating window



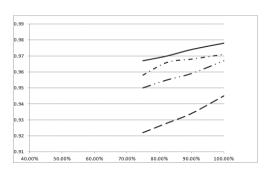
Efficiency vs load (@230VAC 50HZ)



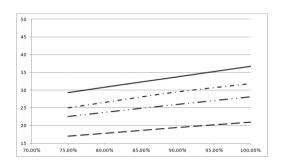
Input current vs load (@230VAC 50HZ)



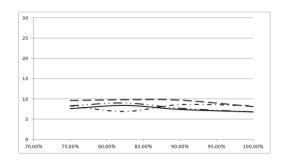
Power factor vs load (@230VAC 50HZ)



Input power vs load (@230VAC 50HZ)

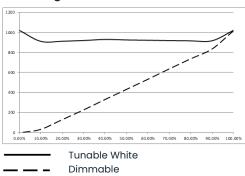


THD vs load (@230VAC 50HZ)

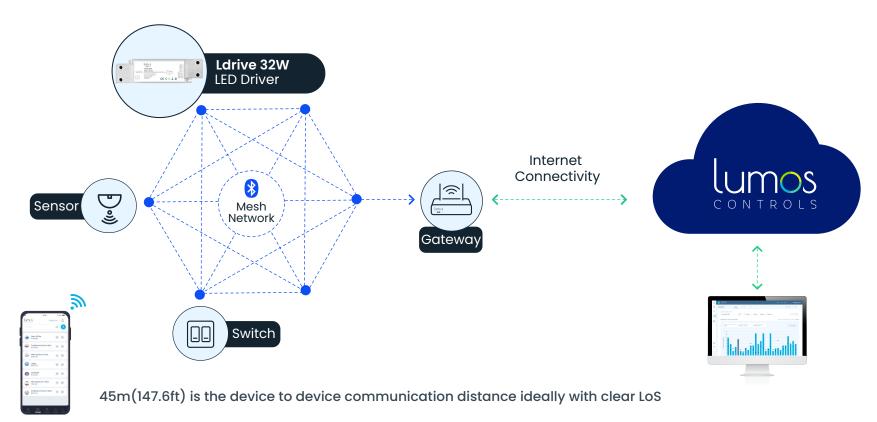




Dimming characteristics



Smart Ecosystem



Certifications	Details		
CE	EMC test standards ETSI EN 301 489-1 V2.2.3(2019-11) EN 55032: 2015/A11: 2020 EN 55035: 2017+A11: 2020 EN 61347-2-13:2014+A1:2017 EN 162493:2015 EMC test standard ETSI EN 300 328 V2 Health test standard EN 62479: 2010 EN 50663: 2017 Safety test standard EN 61347-1:2015+A1:2021 EN 162493:2015	.2.2 (2019-07)	
RoHS 2.0	RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU		
REACH	Regulation (EC) No 1907/2006 of REACH		
WEEE	Under the WEEE Directive: 2012/19/EU		
Bluetooth	Declaration ID: D039950		

Items included in the package box

Ldrive 32W

User manual

Screws

Strain relief

Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating	Output Power	Output Channel
WDA2C-32W-IDB	Ldrive 32W	Constant current wattage selectable Tunable LED Driver 32W	BLE4.2	220-240V AC	32W	2 Channels

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