



Date \_\_\_\_\_ Project \_\_\_\_\_

Notes \_\_\_\_\_

## 100W 2 CHANNEL DIMMABLE DALI DRIVER

The 100W 2 Channel Dimmable DALI Driver is a UL Listed high efficiency two-channel 24V constant voltage driver for use with tunable LEDs like our Variable White products.

- Slender, lightweight polycarbonate housing
- Removable endcap allows length adjustment
- Soft on and fade-in dimming functions
- Flicker-free dimming from 0-100%, down to 0.1%
- Two-channel SELV output with common anode
- Constant power design maintains brightness while tuning CCT
- Innovative thermal technology protects power life
- Overheating, over voltage, overload, short circuit protections with automatic recovery
- Suitable for indoor use
- 5-year warranty



### Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	



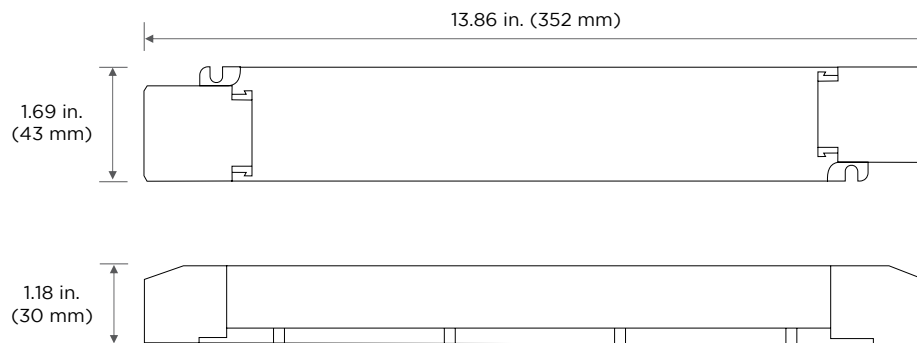
## ORDERING GUIDE

Category	Voltage	Wattage	Dimming Option	Number of Channels
DRV	24	100	DALI	2CH
DRV - Driver	24 - 24 V	100 - 100W	DALI - Dali Dimmable	2CH - 2 channels

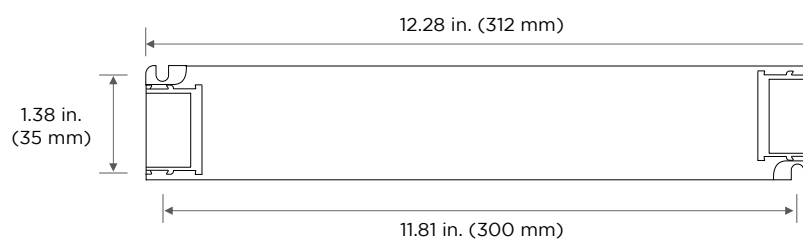
**NOTE:** Use only in an enclosure. When ordering, please specify constant current LED fixture use (wall washer, RibbonLyte, etc.).

## DIMENSIONS

**Length:** 13.86 in. (352 mm)  
**Width:** 1.69 in. (43 mm)  
**Height:** 1.18 in. (30 mm)



### WITHOUT ENDCAPS



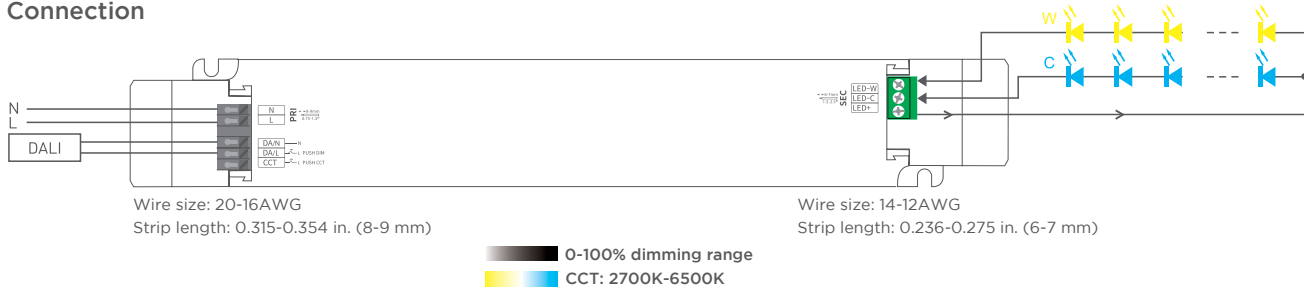
SPECIFICATIONS

100W 2 CHANNEL DIMMABLE DALI DRIVER	
	
Output Voltage (DC)	24V DC
Output Wattage	100 W
Number of Channels	2
Input Voltage	120-277V AC
Max Power	100 W
Rated Voltage	24V DC
Output Voltage Range	24Vdc $\pm$ 0.5Vdc
Ripple & Noise	Switch ripple $\leq$ 150mV, noise $\leq$ 500mV
Power Factor	PF > 0.99/120V AC, PF > 0.95/230V AC, PF > 0.9/277V AC (at full load)
Input Current	Max. 1A/120V AC, 0.55A/230V AC, 0.45A/277V AC
Output Current	Max. 4.17A
Input Frequency	50/60 Hz
PWM Frequency (Output)	3600 Hz
Efficiency (typical)	93%
Safety Standards	US: UL, UL8750 EU: CE, EN61347-1, EN61347-2-13, EN62384
IP Rating	IP20
Dimming Range	0-100%, down to 0.1%
Dimming Interface	DALI-2 DT6/DT8, Push DIM/CCT
Dimensions (L x W x H)	13.86 x 1.69 x 1.18 in. (352 x 43 x 30 mm)
Weight (gross weight)	0.95 lb (430 g)
Lifetime	Up to 50,000 hours
Warranty	5 years

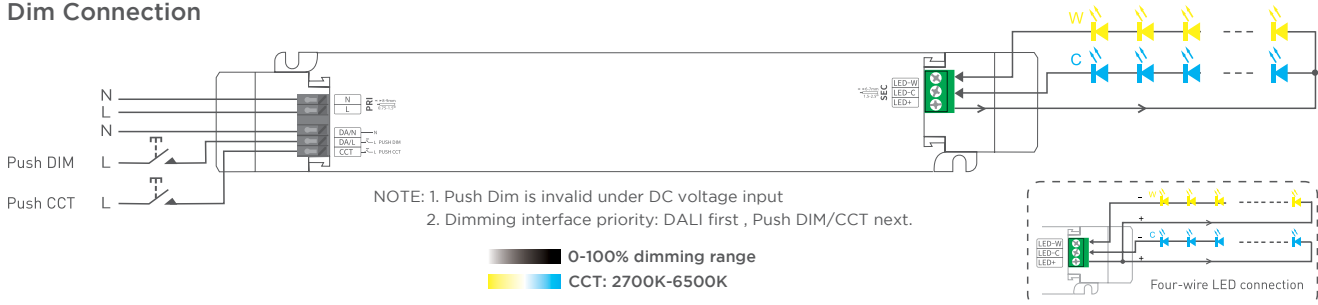
MAX LENGTH BETWEEN DRIVER & RIBBONLYTE AT FULL LOAD		
Wire Gauge	Feet	Meters
24 AWG / 0.25 mm <sup>2</sup>	11	3.3528
22 AWG / 0.34 mm <sup>2</sup>	17	5.1816
20 AWG / 0.5 mm <sup>2</sup>	28	8.5344
18 AWG / 0.75 mm <sup>2</sup>	45	13.716
16 AWG / 15 mm <sup>2</sup>	71	21.6408
14 AWG / 2.5 mm <sup>2</sup>	113	34.4424
12 AWG / 4 mm <sup>2</sup>	181	55.1688
10 AWG / 6 mm <sup>2</sup>	288	87.7824
8 AWG / 10 mm <sup>2</sup>	457	139.2936

## WIRING DIAGRAMS

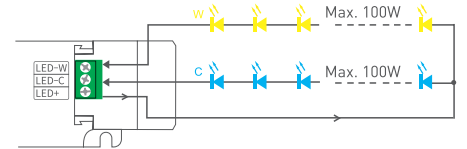
### DALI Connection



### Push Dim Connection

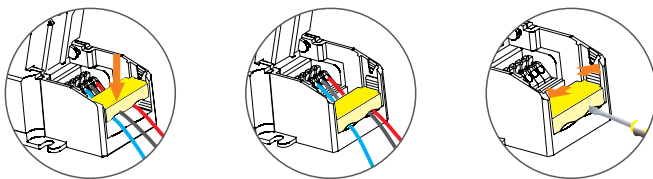


Adopt constant power program design and it keeps the same brightness in color temperature adjustment. Twice the rated power load can be connected to the driver. A 100W driver can connect to 100W X 2CH load and the total power of the 2 channels will be kept within 100W.



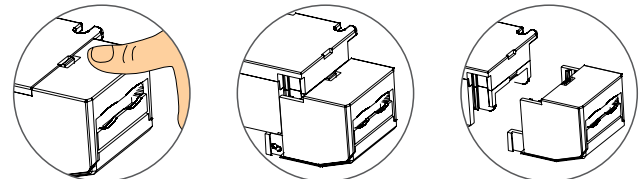
## INSTALLATION

### Tension Plate



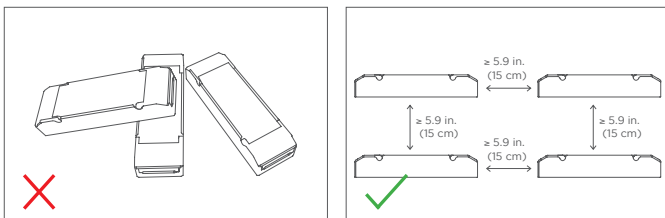
Push the tension plate down to fix the electric wires. Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

### Remove the Protective Housing

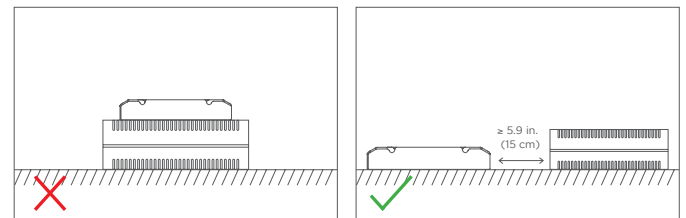


Pull the housing left and right from the bottom to remove it.

### Precautions



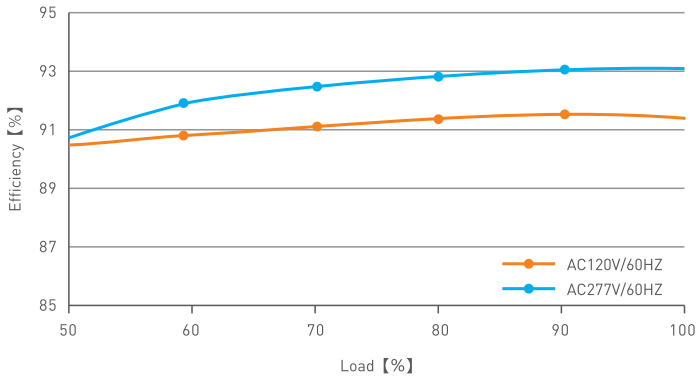
Please do not stack the products. The distance between two products should be  $\geq 5.9$  in. (15 cm) so as not to affect heat dissipation and the lifespan of the products.



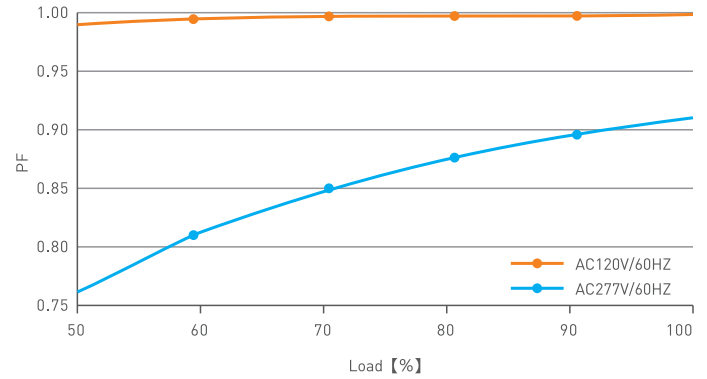
Please do not place the products on LED drivers. The distance between the product and the driver should be  $\geq 5.9$  in. (15 cm) so as not to affect heat dissipation and shorten the lifespan of the products.

PERFORMANCE

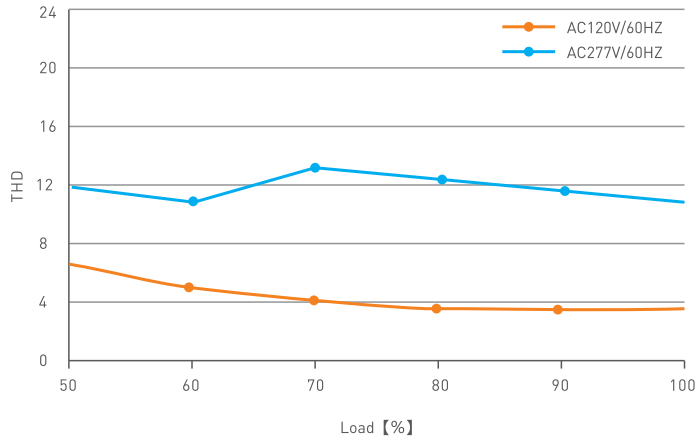
Efficiency vs Load



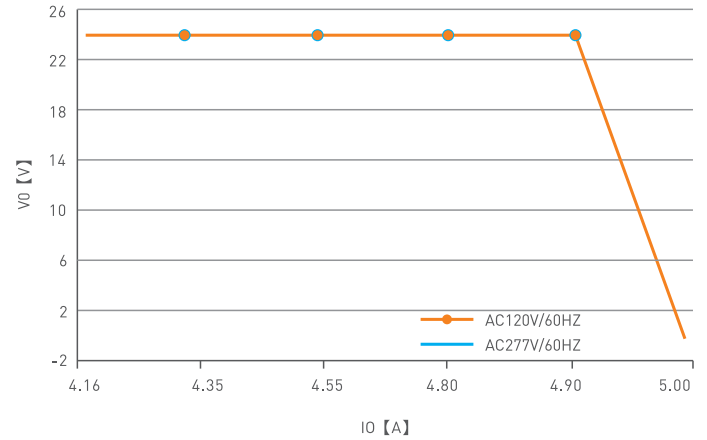
Power Factor Characteristic



THD VS Load



Over Load Diagram



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