

### 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	



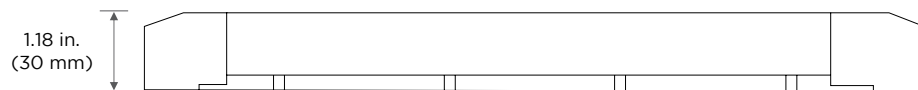
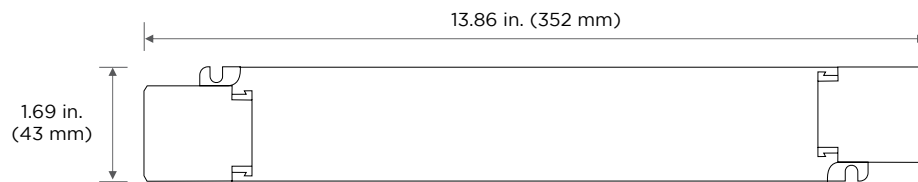
#### ORDERING GUIDE

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

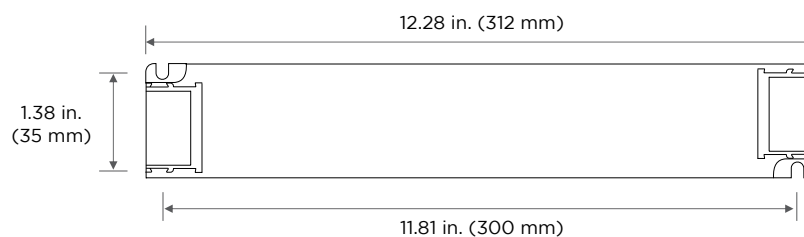
**NOTE:** Use only in an enclosure. When ordering, please specify constant current LED fixture use (wall washer, RibbonLyte, etc.).

#### 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



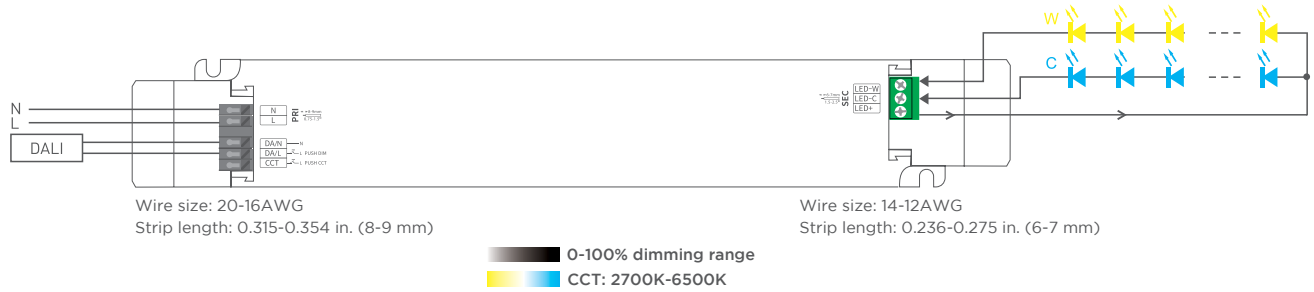
Output Voltage (DC)	24V DC
Output Wattage	100 W
Number of Channels	2
Input Voltage	120-277V AC
Max Power	100 W
Rated Voltage	24V DC
Output Voltage Range	24Vdc ± 0.5Vdc
Ripple & Noise	Switch ripple ≤ 150mV, noise ≤ 500mV
Power Factor	PF > 0.99/120V AC, PF > 0.95/230V AC, PF > 0.9/277V AC (at full load)
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 / 0.20 mm <sup>2</sup>	5.96	1.818
22 AWG / 0.33 mm <sup>2</sup>	10.09	3.077
20 AWG / 0.52 mm <sup>2</sup>	15.44	4.706
18 AWG / 0.82 mm <sup>2</sup>	24.99	7.619
16 AWG / 1.31 mm <sup>2</sup>	40.37	12.308
14 AWG / 2.08 mm <sup>2</sup>	64.00	19.512
12 AWG / 3.31 mm <sup>2</sup>	100.92	30.769
10 AWG / 5.26 mm <sup>2</sup>	159.03	48.485
8 AWG / 8.37 mm <sup>2</sup>	249.90	76.190

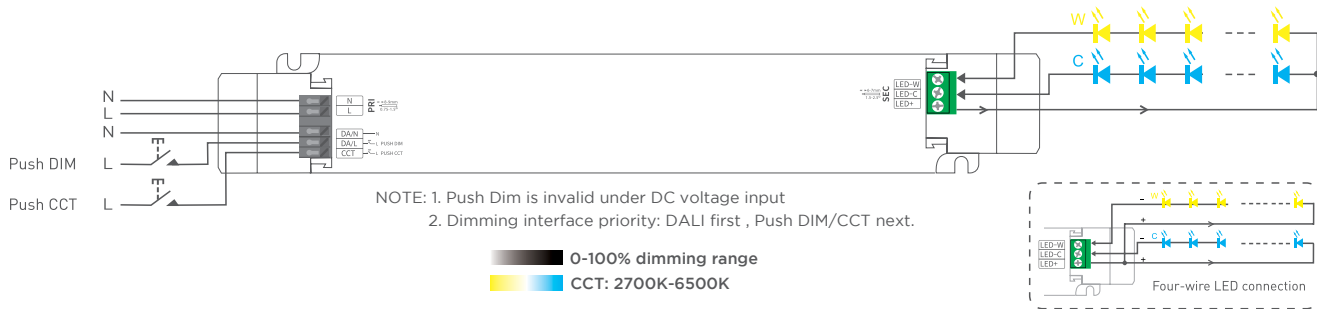
NOTE: Calculations include a standard 10% buffer

WIRING DIAGRAMS

DALI Connection

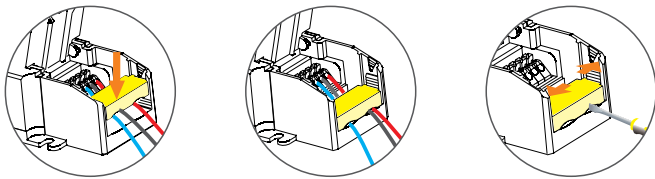


Push Dim Connection



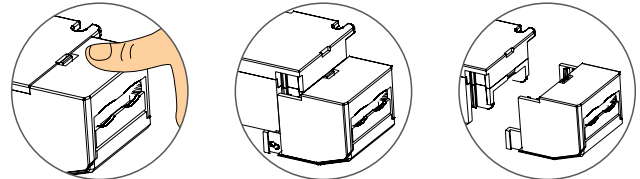
INSTALLATION

Tension Plate



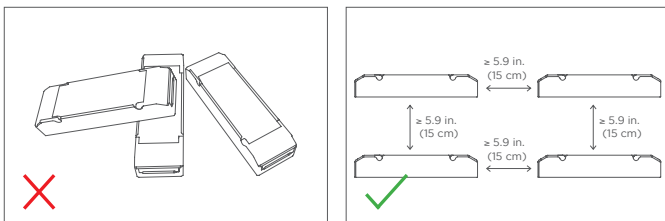
Push the tension plate down to fix the electric wires. Push the side plate outwards and remove the tension plate by prying it up with a tool at the same time.

Remove the Protective Housing

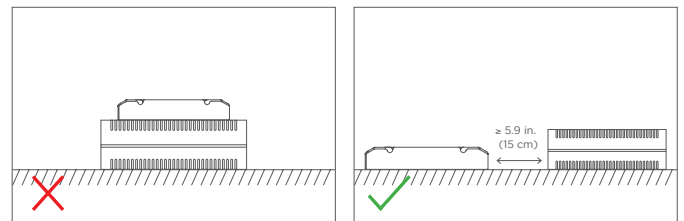


Pull the housing left and right from the bottom to remove it.

Precautions



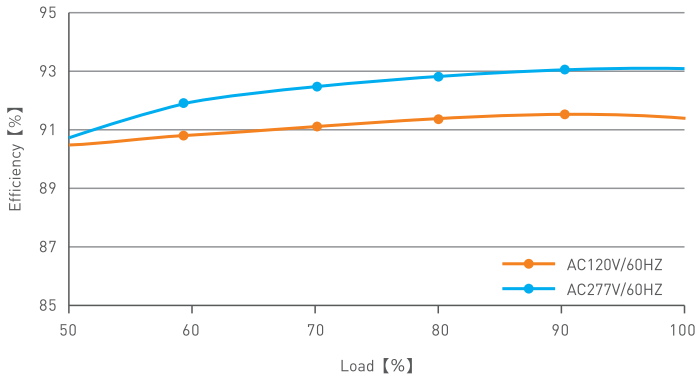
Please do not stack the products. The distance between two products should be  $\geq 5.9$  in. (15 cm) so as not to affect heat dissipation and the lifespan of the products.



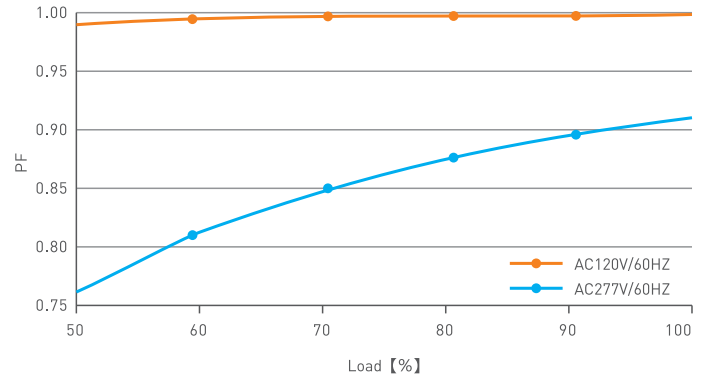
Please do not place the products on LED drivers. The distance between the product and the driver should be  $\geq 5.9$  in. (15 cm) so as not to affect heat dissipation and shorten the lifespan of the products.

PERFORMANCE

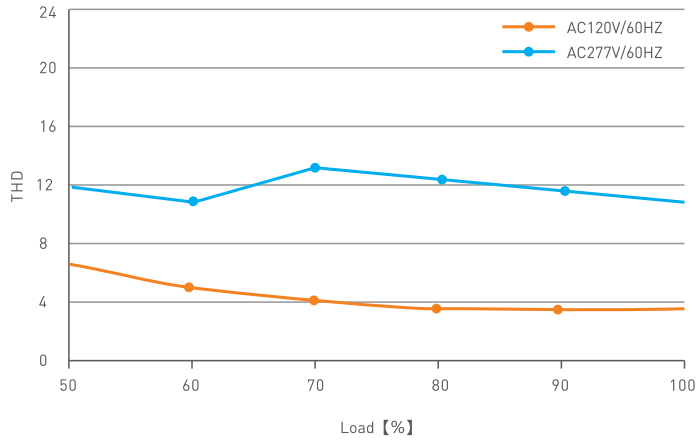
Efficiency vs Load



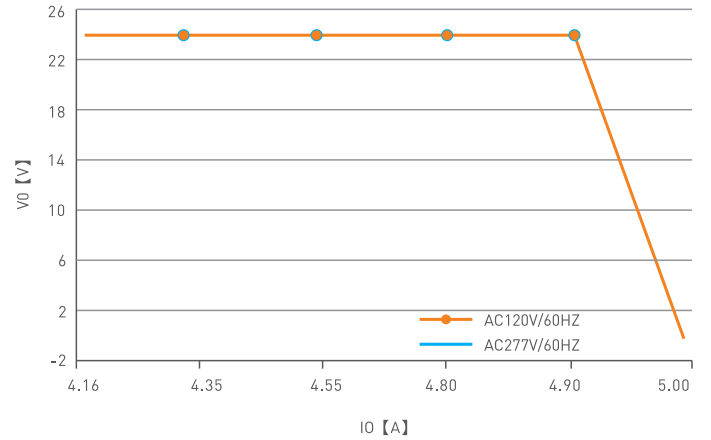
Power Factor Characteristic



THD VS Load



Over Load Diagram



Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.