

96W DIMMABLE DALI-2 DT8 D4I 2 CHANNEL DRIVER

This UL Listed constant voltage Class 2 intelligent LED driver provides high efficiency and great heat dissipation with dimmable 24V output. The driver features an enclosure with isolated wire connections and a NEMA 4x rating. With 120-277 VAC input voltage, it is suitable for Variable White (tunable) fixtures in commercial, industrial and residential applications.



- DALI-2 Type 8
- Constant voltage dimmable driver
- For use with Variable White (tunable) fixtures
- High efficiency and high power factor
- Short circuit, overtemperature and overload protection
- IP67, NEMA 4x and UL wet location
- 6-year warranty



SPECIFICATIONS

Driver Type	Constant Voltage	Dimming Output Type	PWM
Rated Input Voltage Range	120-277 VAC	Dimming Input Type	DALI-2 DT8 D4I
Input Frequency	47-63 Hz	Ambient Operating Temperature	-40 — 122 °F (-40 — 50 °C)
Hipot Withstand Voltage	I/P-O/P: 3.75 kV; I/P-FG: 1.5 kV; O/P-F-G: 0.5 kV	Storage Temperature	-40 — 176 °F (-40 — 80 °C)
Input Current (Max.)	<1 A @ 120 VAC; <0.5 A @ 277 VAC	Max Relative Humidity	20-95% RH
Inrush Current (Typ.)	58 A, 134.4us @ 50% Ipeak 120 VAC 123 A, 205us @ 50% Ipeak 277 VAC	EMC Surge Immunity Voltage	AC Power Line: Differential Mode 4 kV, Common Mode 6 kV
THD	≤10% @ 120 VAC; ≤10% @ 230 VAC; ≤10% @ 277 VAC	Overvoltage Protection	Yes
Power Factor	PF≥0.95 @ 120VAC; PF≥0.95 @ 230 VAC; PF≥0.95 @ 230 VAC	Short Circuit Protection	Yes
Output Power	96 W	Over Temperature Protection	Yes
Output Voltage	24 V (24-26 V)	UL Standards	UL 8750 + UL 1310
Output Current	3.9 A	Environmental Rating	UL wet location and NEMA 4x rated
Efficiency @ Full Load	91% @ 120 VAC; 89% @ 277 VAC	EMI Compliance	FCC Part 15 CLASS B
		Warranty	6 years

ORDERING GUIDE

Category	Voltage	Wattage	Dimming Option	Number of Channels
DRVW	24	96	DALI	2CH
DRVW - Waterproof Driver	24 - 24 VDC Output	96 - 96W	DALI - DALI-2 DT8 D4I Dimmable	2CH - 2 Channel

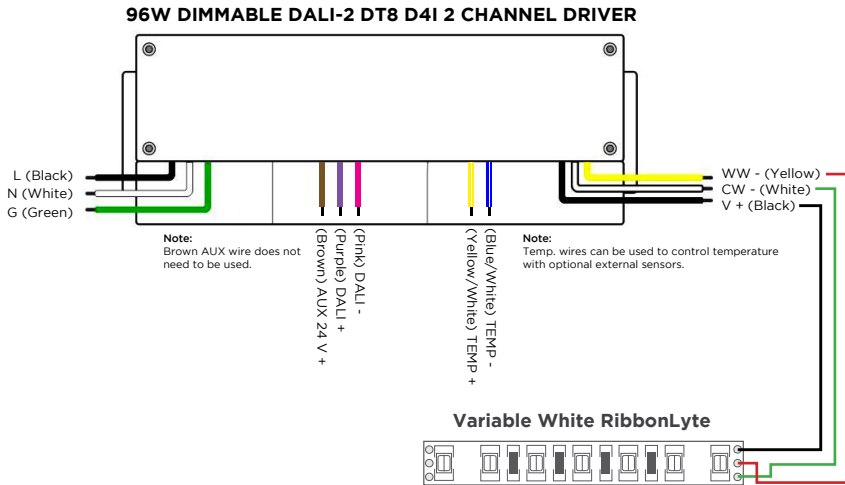
MAXIMUM DISTANCE FROM DRIVER TO LED AT FULL LOAD

96 W

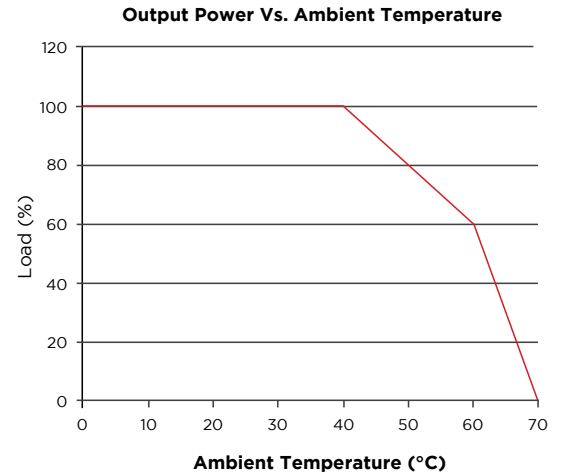
Wire Gauge	Feet	Meters
24 AWG / 0.25 mm ²	5.5	1.68
22 AWG / 0.34 mm ²	9	2.74
20 AWG / 0.5 mm ²	14	4.27
18 AWG / 0.75 mm ²	23	7.01
16 AWG / 1.5 mm ²	37	11.28
14 AWG / 2.5 mm ²	59	17.99
12 AWG / 4 mm ²	94	28.66
10 AWG / 6 mm ²	150	45.73
8 AWG / 10 mm ²	239	72.87

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WIRING DIAGRAM



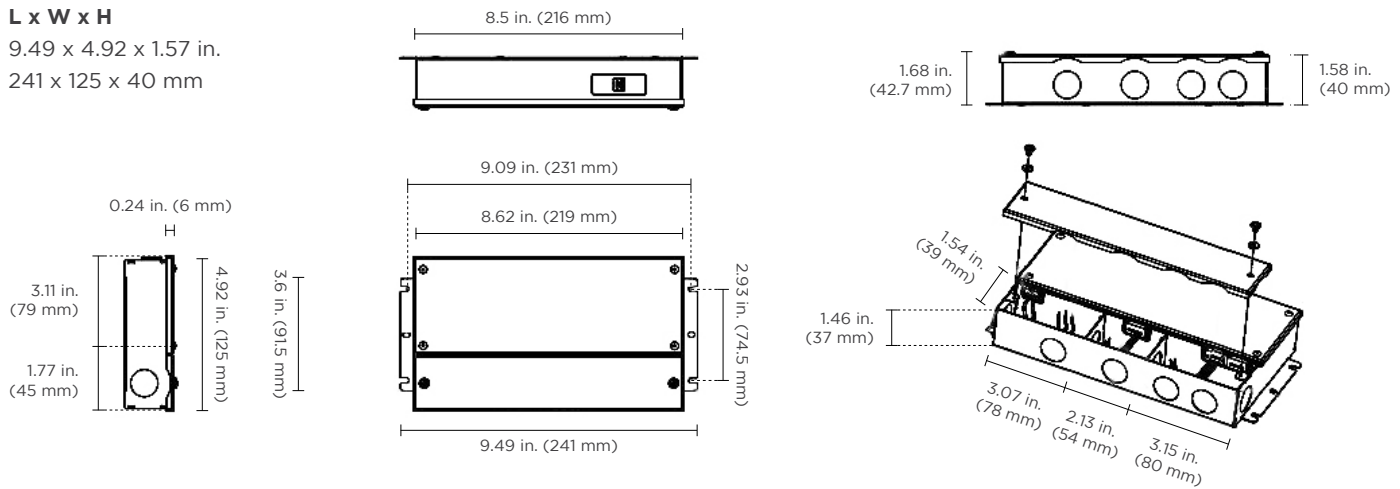
DERATING CURVE



DIMENSIONS

L x W x H

9.49 x 4.92 x 1.57 in.
241 x 125 x 40 mm



NOTE: To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (101.6 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50.8 mm). When the distance to the sidewall and top of the enclosure is 6 in. (152.4 mm), maintain at least 2 in. (50.8 mm) side-to-side spacing between drivers. Drivers should be placed at a minimum of 1 in. (25.4 mm) apart when arranging them end-to-end regardless of the enclosure size.

MINIATURE CIRCUIT BREAKER (MCB) RECOMMENDATIONS

NUMBER OF LED DRIVERS PER CIRCUIT BREAKER AT 120 VAC		
MCB Type	Level	Number of LED Drivers
C Type (Breaking capacity: 6kA)	10 A	6
	13 A	7
	16 A	9
	20 A	12
	25 A	15
NUMBER OF LED DRIVERS PER CIRCUIT BREAKER AT 277 VAC		
MCB Type	Level	Number of LED Drivers
C Type (Breaking capacity: 6kA)	10 A	12
	13 A	15
	16 A	19
	20 A	24
	25 A	29

NOTES:

- The above quantities of the LED drivers connected on the Type C is recommended base on the maximum ambient temperature of 122 °F (50 °C).
- The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.

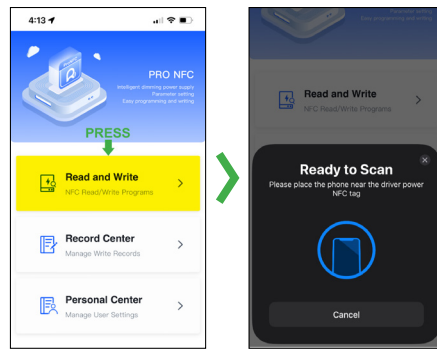
ACTIVATING DALI BUS POWER

NOTE:

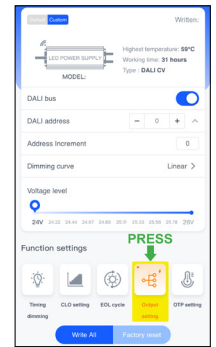
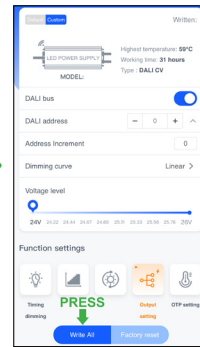
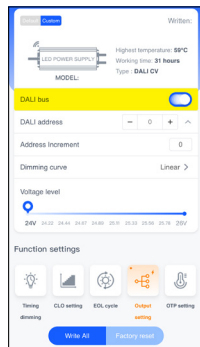
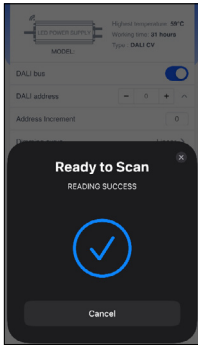
The maximum number of drivers that can be connected to the same DALI bus circuit is four (4). The amperage in each driver with DALI bus power turned on is 56 mA, while the maximum current on which the DALI bus circuit can operate is 250 mA. **DO NOT** connect five (5) or more drivers with DALI bus power turned on.

This procedure can be done with any iPhone or Android device.

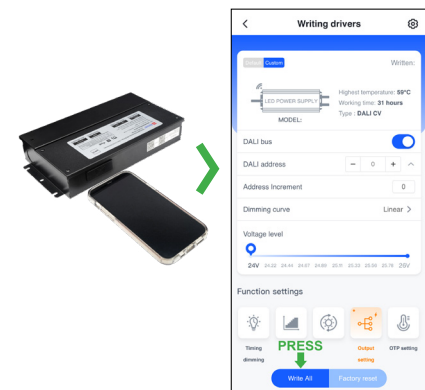
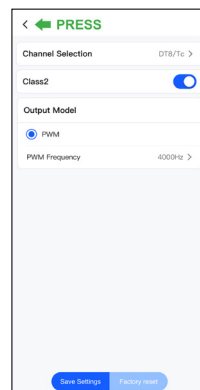
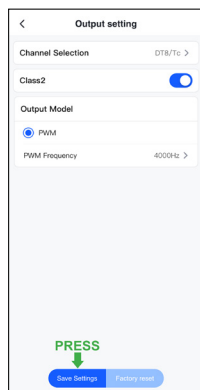
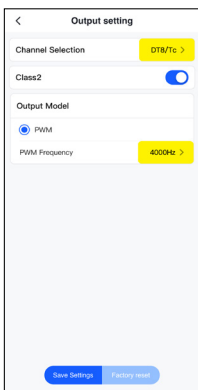
1. Download the ProNFC app from the applicable App Store or Google Play Store.
2. Open the App and press the 'Read and Write' button on the home page. A "Ready to Scan" message should appear on the screen.
3. Connect the App to the driver by holding the top of the phone (the camera end) to the NFC tag on the driver.



4. A "Reading Success" message with a check mark should pop up, confirming the App and the driver have connected.
5. The App should then show the "Writing Drivers" page. Press the "Output setting" tab at the bottom of the screen. In the "DALI bus" row, toggle DALI bus power ON. (The slider should move from left to right and change color from gray to blue.)
6. Hold the top of the phone to the driver and press the "Write All" button.
7. Press the "Output setting" button again.



8. Make sure that the "Channel Selection" is set to "DT8" and "PWM Frequency" is set to "4000 Hz".
9. Press "Save Settings" at the bottom.
10. Press the back arrow (<) at the top left.
11. Hold the top of the phone to the driver and press the "Write All" button.



GLOBAL HQ
320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ
Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ
PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genlebrands.com

ASIA-PACIFIC HQ
Room 402, Building D
Shenshi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhui Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com