Date		Project	
Notes			

94W ATHENA WIRELESS COMPATIBLE 2 CHANNEL DRIVER

This UL Listed constant voltage Class 2 intelligent LED driver provides high efficiency and great heat dissipation with dimmable 24V output. Offering wireless compatibility with the Lutron Athena control system, it features an enclosure with isolated wire connections. With 120-277 VAC input voltage, this driver is suitable for Variable White (tunable for CCT and warmth) LED lighting in commercial, industrial and residential applications.

- Constant voltage dimmable driver
- Lutron Athena Wireless compatibility
- For use with Variable White (tunable) fixtures
- High efficiency and high power factor
- Short circuit and constant power protection
- Overtemperature and overload protection
- Lightning surge protection
- Lumen output compensation
- Dimming range from 100% to 1%
- 6-year warranty

NOTE: Lutron specifies that Athena Wireless Nodes should be installed within 25 ft (7.62 m) of two or more Athena Wireless Nodes. Walls, ceilings and some signals may interfere with Athena and reduce this distance.

c(UL)us LISTED   FC   SAA   RoHS   SELV

SPECIFICATIONS

Driver Type	Constant Voltage	Dimming Output Type	PWM
Rated Input Voltage Range	120-277 VAC	Ambient Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Input Frequency	47-63 Hz	Storage Temperature	-40 — 176 °F (-40 — 80 °C)
Input Current (Max.)	1.2 A	Max Relative Humidity	20-95% RH
THD	≤10% @ 120 VAC; ≤10% @ 230 VAC; ≤15% @277 VAC	Overvoltage Protection	Yes
Power Factor	PF≧0.99@120 VAC; PF≧0.98@230 VAC; PF≧0.98 @ 230 VAC	Short Circuit Protection	Yes
Output Power	94 W	Over Temperature Protection	Yes
Output Voltage	24 V (24-26 V)	UL Standards	UL 8750 + UL 1310
Output Current	3.9 A	EMI Compliance	FCC Part 15 CLASS B
Efficiency @ Full Load	87% @ 120 VAC; 89% @ 230/277 VAC	Warranty	6 years
Dimming Control	DALI		
Dimming Range	100%-1%		

ORDERING GUIDE

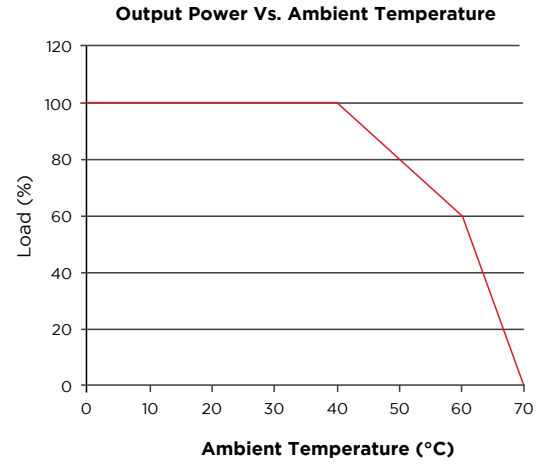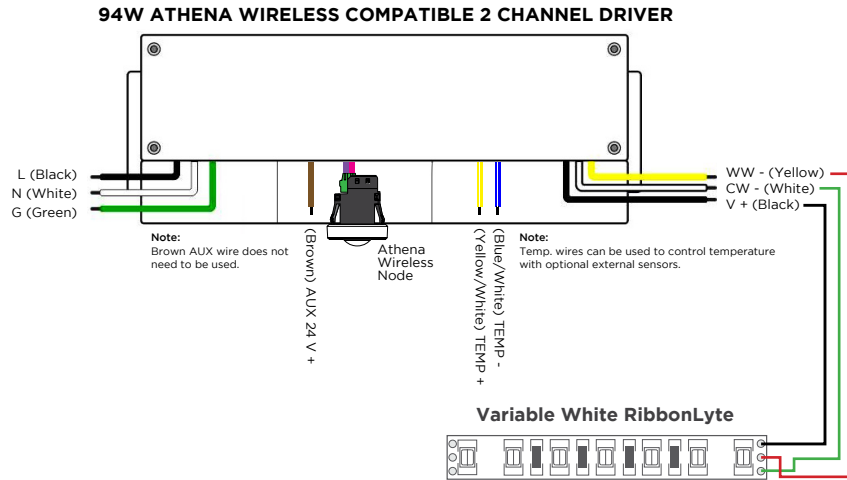| Category	Voltage	Wattage	Compatibility
DRVW	24	94	ATH2CH
DRVW - Driver	24 - 24 VDC Output	94 - 94 W	ATH2CH - Lutron Athena Wireless Compatible 2 Channel

MAXIMUM DISTANCE FROM DRIVER TO LED AT FULL LOAD		
94 W		
Wire Gauge	Feet	Meters
24 AWG / 0.25 mm²	5.5	1.68
22 AWG / 0.34 mm²	9	2.74
20 AWG / 0.5 mm²	14	4.27
18 AWG / 0.75 mm²	23	7.01
16 AWG / 15 mm²	37	11.28
14 AWG / 2.5 mm²	59	17.99
12 AWG / 4 mm²	94	28.66
10 AWG / 6 mm²	150	45.73
8 AWG / 10 mm²	239	72.87

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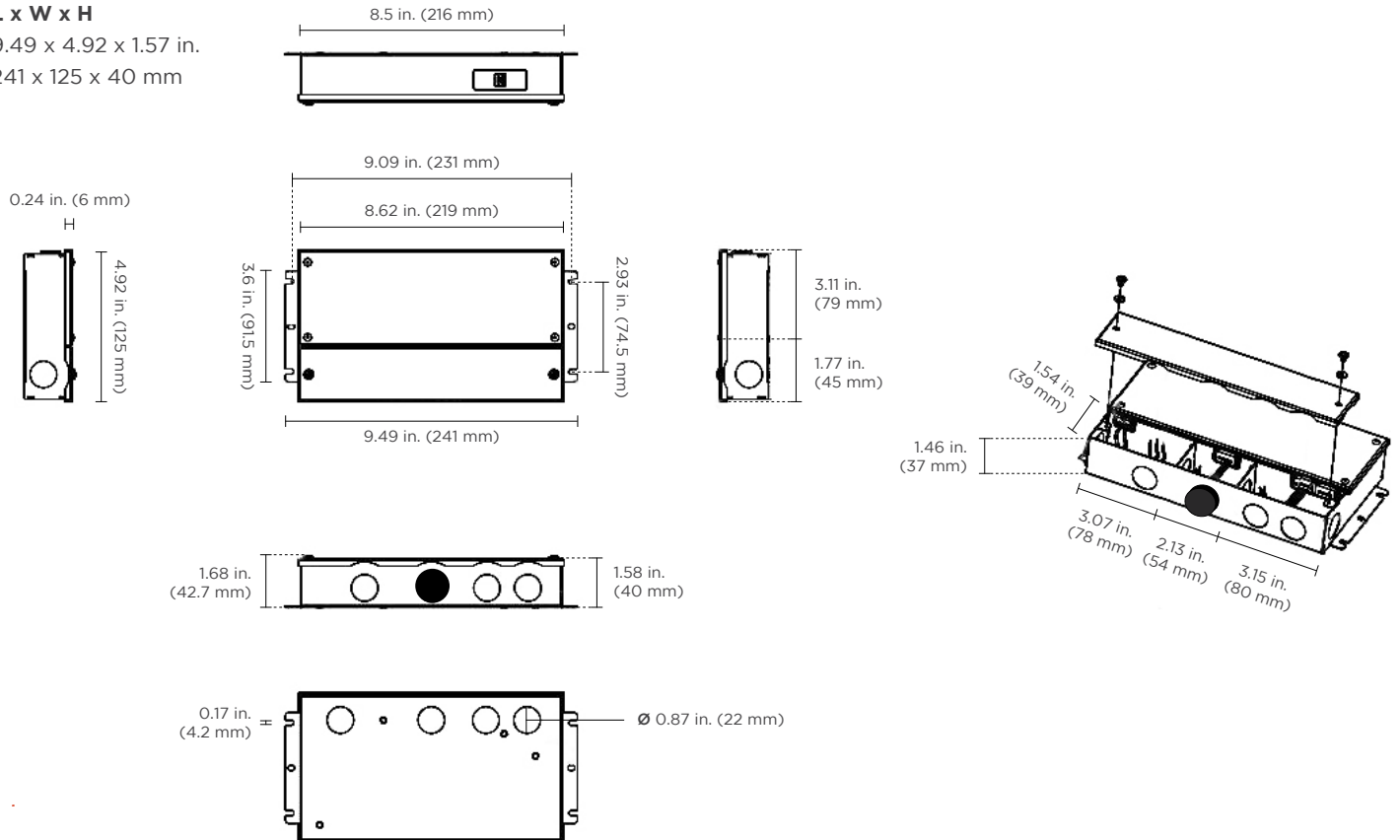
WIRING DIAGRAM

DERATING CURVE

94W ATHENA WIRELESS COMPATIBLE 2 CHANNEL DRIVER

L (Black)
N (White)
G (Green)

Note:
Brown AUX wire does not need to be used.

(Brown) AUX 24 V +

Athena Wireless Node

(Blue/White) TEMP -
(Yellow/White) TEMP +

Note:
Temp. wires can be used to control temperature with optional external sensors.

WW - (Yellow)
CW - (White)
V + (Black)

Variable White RibbonLyte

Output Power Vs. Ambient Temperature

Load (%)

Ambient Temperature (°C)

DIMENSIONS

L x W x H
9.49 x 4.92 x 1.57 in.
241 x 125 x 40 mm

8.5 in. (216 mm)

0.24 in. (6 mm)
H

4.92 in. (125 mm)

9.09 in. (231 mm)

8.62 in. (219 mm)

3.6 in. (91.5 mm)

2.93 in. (74.5 mm)

9.49 in. (241 mm)

3.11 in. (79 mm)

1.77 in. (45 mm)

1.54 in. (39 mm)

1.46 in. (37 mm)

3.07 in. (78 mm)

2.13 in. (54 mm)

3.15 in. (80 mm)

1.68 in. (42.7 mm)

1.58 in. (40 mm)

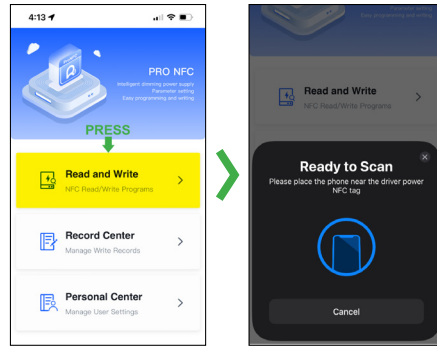0.17 in. (4.2 mm)

Ø 0.87 in. (22 mm)

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.

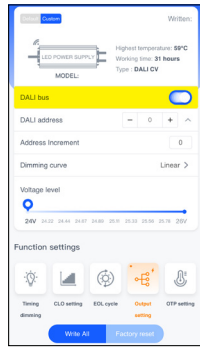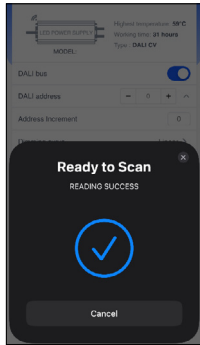**This procedure can be done with any iPhone or Android device.**

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.
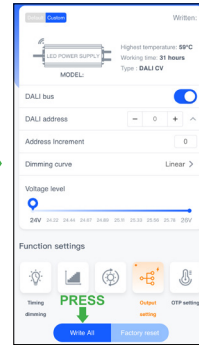
3. Connect the App to the driver by holding the top of the phone (the camera end) to the NFC tag on the driver.
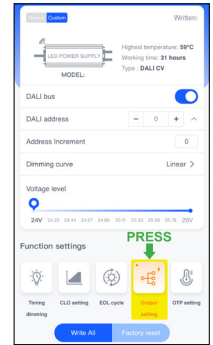
4. A "**Reading Success**" message with a check mark should pop up, confirming the App and the driver have connected.

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.)
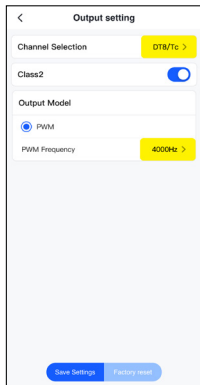
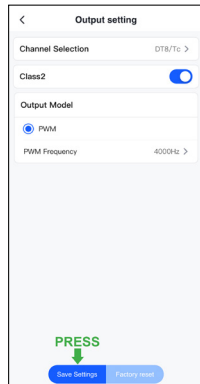6. Hold the top of the phone to the driver and press the "**Write All**" button.

7. Press the "**Output setting**" button again.

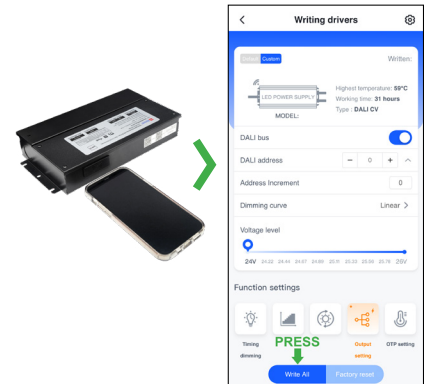8. Make sure that the "Channel Selection" is set to "**DT8**" and "PWM Frequency" is set to "**4000 Hz**".

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.

ASIA-PACIFIC HQ

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@genledbrands.com

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

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