

IP66
RATED

Class2

Features

- Constant Voltage output
- UL, cULus listed, Class 2 unit
- Remote Device Management (RDM) function
- Near Field Communication (NFC) function compatible with EasyNFC app or dedicated NFC device
- Four independent channel outputs (RGBW)
- Universal AC input: 100-277VAC
- Built-in active power factor correction (PFC)
- Up to 0.98 power factor capacity
- Up to 89% efficiency
- 10-100% load capacity
- Protected from Short Circuits, Overload and Overheat
- IP66 Protection for dry, damp and wet locations
- Flicker-free, ≥4kHz stroboscopic exemption
- Dimming functions available:
 - DMX512
 - DMX512 Signal Isolation
- 0 to 100% dimming range
- Suitable for LED lighting
- Cooling by free air convection

Specifications

OUTPUT		INPUT			
DC Voltage	24V	Voltage Range	100-277VAC		
Rated Current	4 x 1.04A	Frequency Range	47-63Hz		
Rated Power	100W (4 x 25W)	Power Factor (Typ.) @Full Load	≥0.98 @230VAC		
Voltage Tolerance	±0.5V	THD (Typ.) @Full Load	≤10% @120VAC		≤15% @230VAC
Voltage Regulation	±2%	Efficiency (Typ.) @Full Load	89% @230VAC		
Load Regulation	±1%	AC Current (Max.)	1.3A		
		Inrush Current (Typ.)	8.4A, 50%, 940μs @120VAC	40.4A, 50%, 370μs @230VAC	21.6A, 50%, 960μs @277VAC
		Leakage Current	<0.50mA		

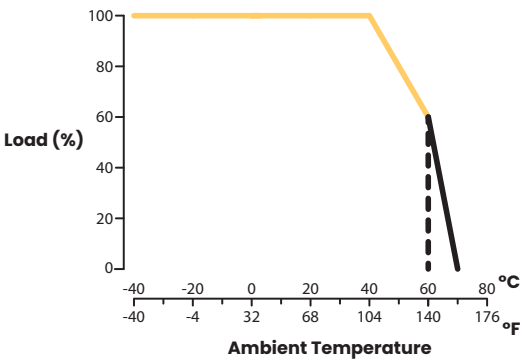
PROTECTION	
Short Circuit	Hiccup mode. Once faulty condition is removed, driver recovers automatically
Overload	@ ≤120%: Output Voltage shutdown. Once faulty condition is removed, driver recovers automatically
Overheat	@ 100°C ±10°C / @ 212°F ±18°F: Output Voltage shutdown. Once cooled down, driver recovers automatically

ENVIRONMENT	
Working Temperature	-40°C ~ +60°C / -40°F ~ 140°F (See Derating Curve below)
Working Humidity	20% ~ 95% Relative Humidity, Non-Condensing
Storage Temperature & Humidity	-40°C ~ +80°C / -40°F ~ 176°F 10% ~ 95% Relative Humidity
Temperature Coefficient	±0.03%/°C (0°C ~ 50°C) / ±0.054%/°F (32°F ~ 122°F)
Vibrations	10 ~ 500Hz, 5G 10min. / 1 cycle, 60 min. period each. / Along X, Y and Z axis

SAFETY & ELECTROMAGNETIC COMPATIBILITY (EMC)		OTHERS	
Safety Standards	EN61347-1, EN61347-2-13, UL8750, Class2	Net Weight	1.2Kg
Withstand Voltage	Input to Output: 3.75KVAC / Input to Frame Ground: 1.88KVAC Output to Frame Ground: 0.5KVAC / Input to Output: 1.5KVAC	Dimensions (L x W x H)	241 x 125 x 41.3mm 9.49 x 4.92 x 1.63in
Isolation Resistance	Input to Output: 100MΩ / 500VDC / 25°C (77°F) / 70% Relative Humidity		
EMC Emission	EN55015, EN61000-3-2 & FCC Part 15 B (≥60% load)		

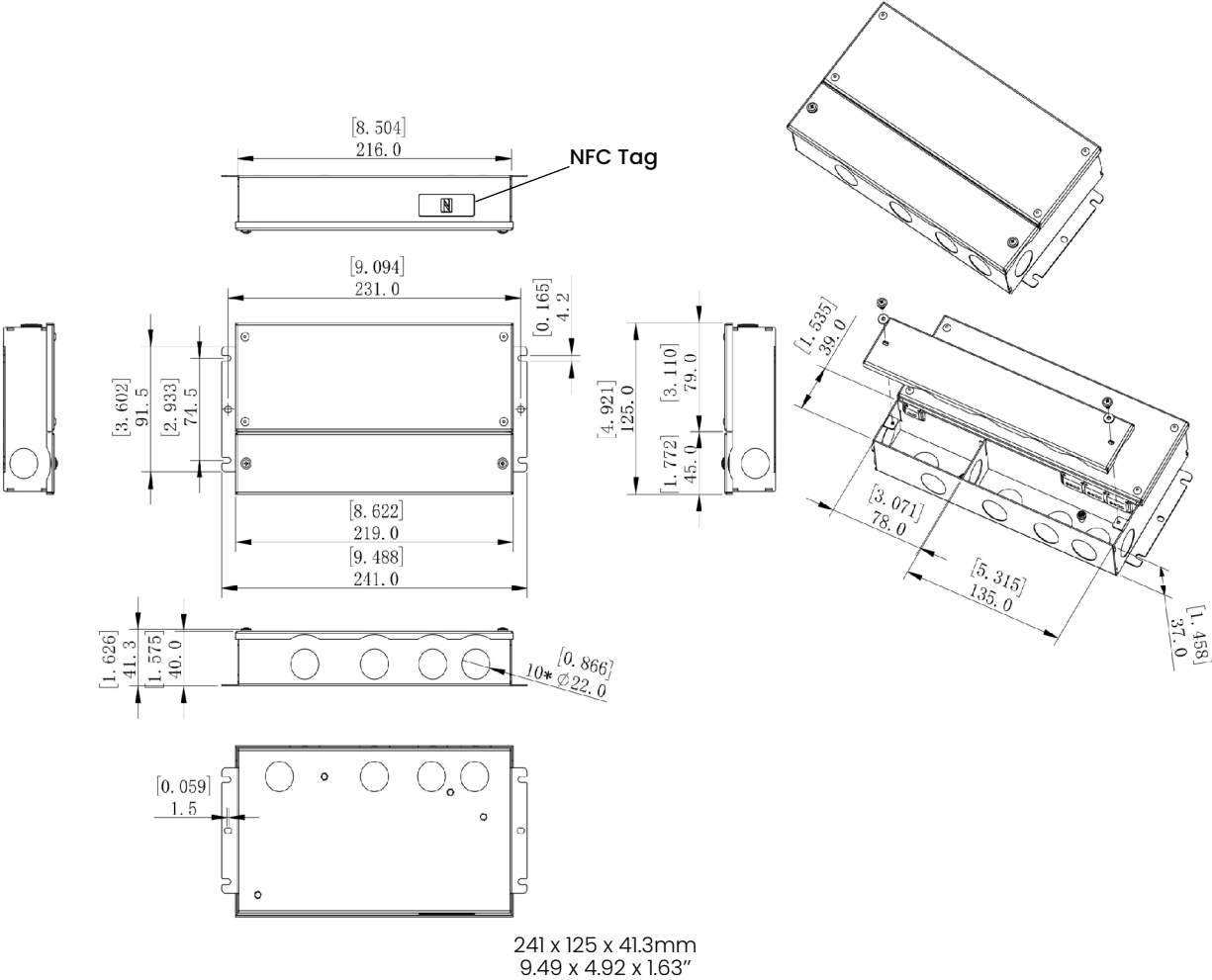
Unless mentioned otherwise, all specifications are measured at 230VAC input, rated load and 25°C (77°F) ambient temperature. Reduce input voltage load to extend the driver's life.

Derating Curve



To extend Driver's life, derate according to the ambient temperature.

Dimensions

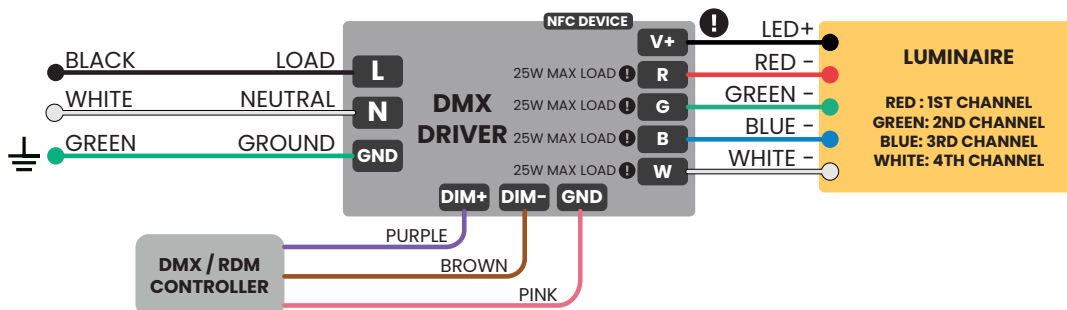


[Inch]
Millimetre

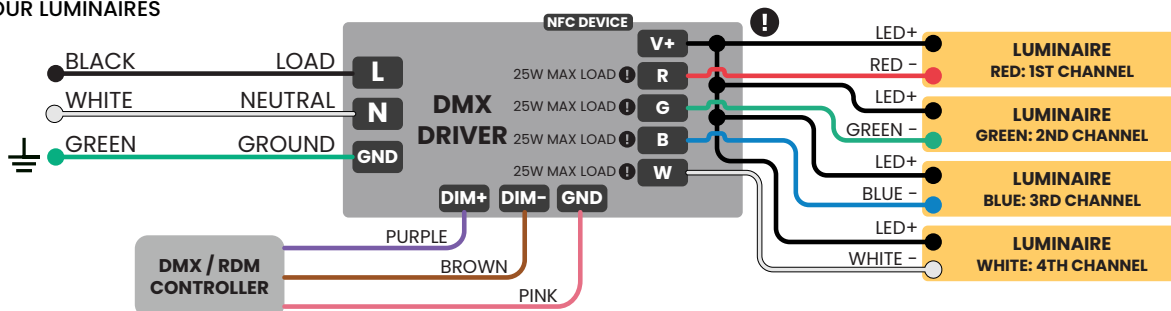
Connection Diagrams

1. This Driver should be installed by a qualified professional.
2. Make sure the Driver is installed with adequate ventilation to allow heat dissipation.
3. Make sure the wiring is correct before testing to avoid damaging Luminaire and Power Supply.
4. **DO NOT ATTEMPT TO REPAIR THE DRIVER.**

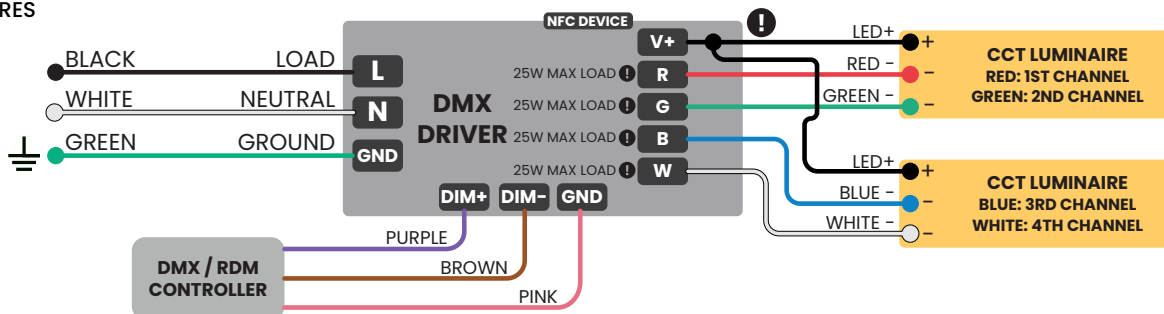
RGBW LUMINAIRE



FOUR SINGLE COLOUR LUMINAIRES



TWO CCT LUMINAIRES



! Lumen Warm recommends **NOT TO EXCEED 80%** of the Driver's load capacity for longer durability.

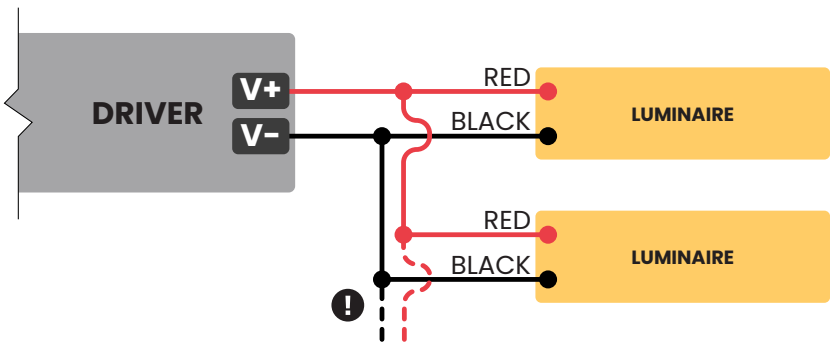
i Lumen Warm recommends matching wire colours to corresponding LED terminals to prevent programming issues.

Multiple Luminaires Wiring Methods

IN PARALLEL, DAISY CHAIN METHOD



IN PARALLEL, PARALLEL STANDARD METHOD



- ! Lumen Warm recommends **NOT TO EXCEED 80%** of the Driver's load capacity for longer durability.
- i Both connection methods can be combined if applicable.
- i This is a simplified diagram. Use for reference only.

Output Voltage Setup

- When installing a Driver remotely, a voltage drop may occur due to the wire length between the Luminaire and the Driver.
- VOLTAGE LEVEL AT LUMINAIRE'S ENTRY MUST NOT EXCEED 24V, OR LUMINAIRE MAY GET PREMATURELY DAMAGED.**
- Check Voltage Level at the end of output wiring just before the Luminaire. Ensure it reads 24V.

SETUP INSTRUCTIONS WITH NFC DEVICE

- Driver's voltage output can be read and adjusted by using the ProNFC app or a NFC handheld device by holding it close to the Driver's NFC tag.
- Voltage range is divided in 10 levels. Each level is 0.2V. Default voltage output is Level 1.

OUTPUT VOLTAGE LEVELS										
Rated Voltage	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
24V	24V	24.22V	24.44V	24.66V	24.88V	25.10V	25.32V	25.54V	25.66V	26V

Driver Address Setup

- Driver's default address is set to 001.
- Address can be changed with any of these devices:



- RDM device:**
Refer to RDM device's manual.



- NFC device:**
Use a NFC handheld device or hold handheld device close to Driver's NFC device.



- ProNFC app on smartphone:**
Hold smartphone close to driver's NFC tag.

Driver Address Setup (Cont.)

SETUP INSTRUCTIONS WITH ProNFC APP

1

Install the ProNFC app using the QR codes below.



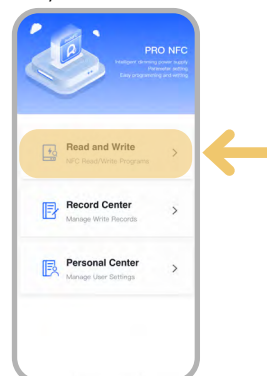
iOS



Android

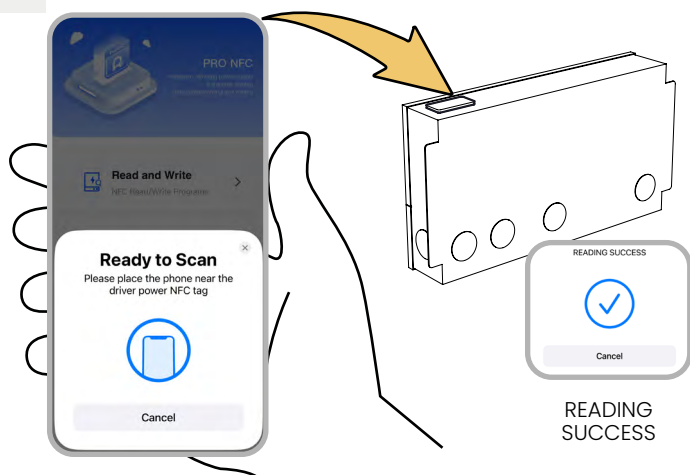
2

Keep the phone away from Driver. Select *Read and Write*.



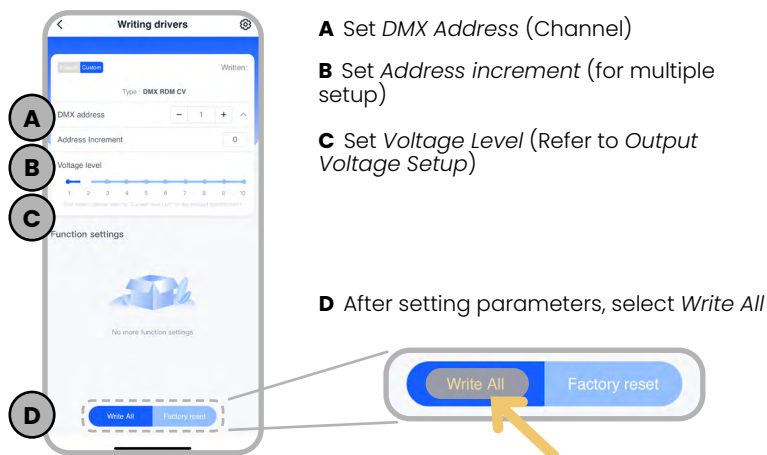
3

Hold the phone close to Driver's NFC tag.



4

Set parameters as desired.



5

Hold the phone close to Driver's NFC tag.

