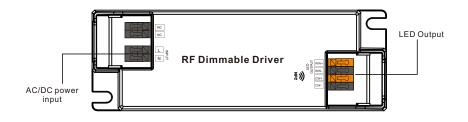
# 10W RF NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

**Function introduction** 



### **Product Data**

	LED Channel	2							
	DC Voltage	3-42V, Max. 50V							
Output	Current	100-500mA via NFC tool; Min.current gear lower to 0.1mA, default 250m.							
	Current Accuracy	±3%( ±1%@Certain full load) @ full load							
	Rated Power	Max. 10W							
	Voltage Range	220-240VAC/220-240VDC							
	Absolute Voltage Range	196-264VAC/196-264VDC							
	Frequency Range	0/50/60Hz							
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load							
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)							
Input	Efficiency (Typ.)	> 75% @ 230VAC full load							
	AC Current (Typ.)	0.1A Max.							
	Inrush Current (Typ.)	Max. 4.32A at 230VAC; 80µs duration							
	Leakage Current	< 5mA /230VAC							
	Anti Surge	L-N:2KV							
	Dimming Interface	RF(Sub-G)							
Control	Dimming Range	0.01%-100%@ Max current							
Control	Dimming Method	Amplitude/CCR dimming							
	Dimming Curve	Linear/ Logarithmic optional							



Short Circuit	Yes, remove the fault conditions and re-power the device.							
Over Current	Yes, remove the fault conditions and re-power the device.							
Over Temperature	Yes, remove the fault conditions and re-power the device.							
Working Temp.	-25℃ ~ +45℃							
Max. Case Temp.	Tc=85°C							
Working Humidity	10% ~ 95% RH non-condensing							
Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH							
Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023							
Withstand Voltage	I/P-O/P: 3.75KVAC							
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021							
EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11							
MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature							
Dimension	101x36x25mm (L*W*H)							
Warranty	5 Years							
	Over Current Over Temperature Working Temp. Max. Case Temp. Working Humidity Storage Temp. & Humidity Safety Standards Withstand Voltage Isolation Resistance EMC Emission EMC Immunity MTBF Dimension							

- Dimmable LED driver. Max. output power 10W
- 100-500mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- Dimming curves/Target current/Power-on behavior settings via NFC program tool.
- High power factor and efficiency
- Radio Frequency: Default 869.5/916.5(1009 Version), Available 868/434mhz(2504 Version)
- To switch and dim Tunable White LED lighting fixtures
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with a variety of RF remotes
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

# Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

#### Pairing devices with RF remote

- 1.Do wiring according to connection diagram.
- 2.Pair RF Driver with RF remote: please refer to the instruction of the remote that you would like to pair with.

#### With NFC Programming devices

#### Note

- 1) Do wiring according to the wiring diagram.
- 2) Recommend setting parameters without power-on the RF devices .
- 2) Please make sure your mobile phone has NFC function and enable it .

#### Working with "SR NFC Tool" APP

Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play) . Then open the APP .



- Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
  - 2. Please Make sure that the "NFC position" is matched.
  - 3. Please do not power on the device before setting.
  - 4. If you can't download "SR NFC Tool". Please contact with us.

Step 2: Add device, and name it as you wish.







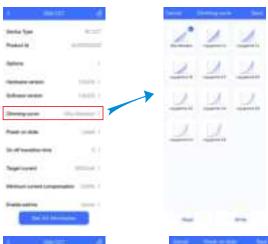


Step 3: Unlock device, enter parameters configuring page.



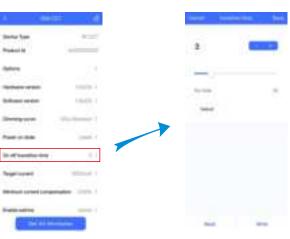
- Note: 1. You have to unlock the device then do some settings
  - 2. Only when the corresponding function is selected, the function interface will be displayed.

#### Step 4: Few parameter interface, you can choose the setting based on your requirements.

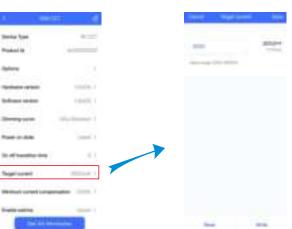


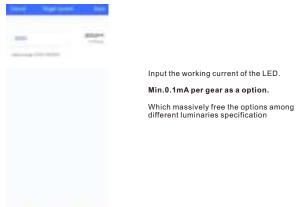
- 1) We bring well-praised "DALI" dimming curve to this product, to ensure you have the smooth dimming performance in RF NFC drivers.
- 2) Besides that, we have the other dimming curves available with intutive graphs, enables you shall find your ideal one.

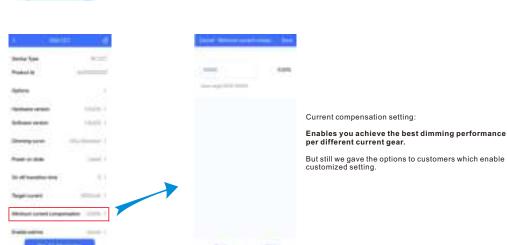
- Off: Always Off after power on.
   On: Always On after power on.
  - 3) Latest: Restore to last light level after power on
- 2 3















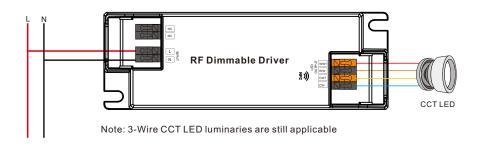
- 1) Enable Pairing: The driver will enter the pairing mode and work with RF remote
- 2) Clear all paired devices: Cleaning paired devices (Seldom use)
- 3) Ignore: When you about to set other parameter please select this, otherwise the devices statues shall be re-write which is not your willing.

#### Tips

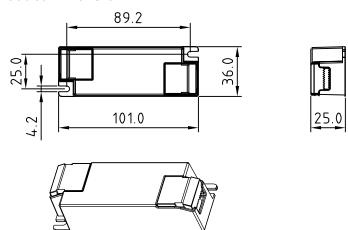
- 1. NFC function doesn't require any power driver.
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our RF NFC drivers are in the best performance within OUR Remotes.
- 4. This is a 2-channel output product, so we recommend ensuring that both loads are connected and have the same loads for each channel at the same time during testing.
- 5. For 1 channel fixtures, please make sure you have our 1 channel drivers connected.
- 6: Read before you Move.

## **Wiring Diagram**

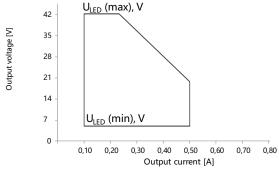
With 4-wire CCT LED luminarie



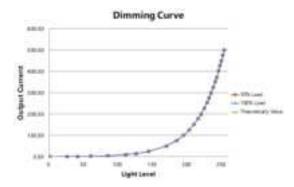
## **Product Dimension**



# **Operating window**

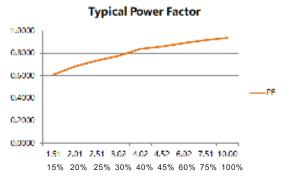


# **Dimming Curve**



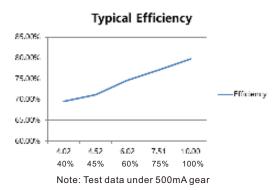
Note: Test data under 500mA gear

## **Driver Performance**

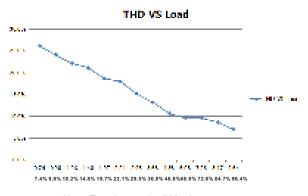


Note: Test data under 500mA gear

## **Driver Performance**



## **Driver Performance**



Note: Test data under 500mA gear

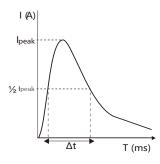
## **Expected Lifetime**

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-1009N-10CC100-500 SRP-2504N-10CC100-500	100 – 500 mA	Tc	50 °C	60 °C	65 °C	•••	85 °C
SRP-1009N-10CCT100-500 SRP-2504N-10CCT100-500	100 – 500 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000	h	> 40,000 h

The LED driver is designed for a lifetime stated above under reference conditions. The relation of tc to ta temperature depends also on the luminaire design.

## **MCB Load Quantity**

Module Number	lpeak	Twidth	Max.quantity of LED Driver per MCB  B10 B13 B16 B20 B25 C10 C13 C16 C20 C25 D10 D13 D16 D20 D25														
SRP-1009N-10CC100-500 SRP-2504N-10CC100-500	4.32A	80µs	34	45	55	69	86	57	75	920	115	144	80	104	128	160	200
SRP-1009N-10CCT100-500 SRP-2504N-10CCT100-500	4.32A	80µs	34	45	55	69	86	57	75	92	115	144	80	104	128	160	200



#### Note:

- 1. Those MCB parameters are based on ABB S200 series circuit breakers.
- For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- 3.Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- 4.When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
- 5. Type C MCB's are strongly recommended to use with LED lighting

#### **Update log**

Date	Version	Update content	Update by
2024-7-26	V1.0	Initial Version	Romeo

Note: Subject to change without notice. Please contact us if you have any questions.

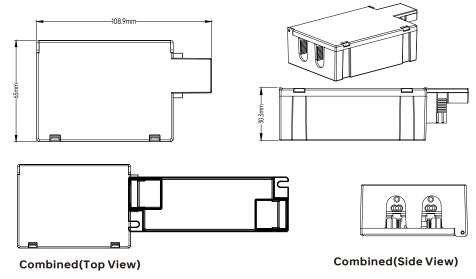
# Quick Connector Box (Optional for Order)

## **SRP-Loopbox-01**

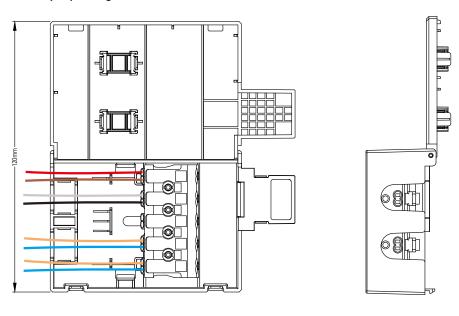
## Loop in & Loop Out design

1x DALI Loop in 1x AC Loop in 1x DALI Loop out 1x AC Loop out

Wiring capability: 0.5-2.5mm<sup>2</sup>(AWG 14-20)



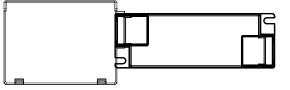
Note: Because the height of the 10W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

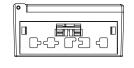


# **Quick Connector Box (Optional for Order)**

# SRP-Loopbox-02

Wiring capability: Plug & Play design (Wago Terminal) 0.5-2.5mm<sup>2</sup>(AWG 14-20)





Combined(Top View)

Combined(Side View)

Note: Because the height of the 10W enclosure is slightly lower than that of the Loop box (Due to its own compact design), it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

