15W RF NFC Enabled LED Driver(Constant Current) ② 张 ((出 企 ④ ④ 匠 EL SELV (Warranty) @ RoHS

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	1					
	DC Voltage	6-42V, Max.50V					
	Current	100-700mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA					
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load					
	Rated Power	Max. 15W					
	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 ≤ 12% (@ full load / 230VAC)					
Input	Efficiency (Typ.)	> 75% @ 230VAC full load					
	AC Current (Typ.)	0.1A Max.					
	Inrush Current (Typ.)	Max. 3.96A 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					

Protection	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℃
Environment	Max. Case Temp.	Tc=85°C
Environment	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 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
Safety & EMC	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
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
Others	Dimension	135x35x20mm (L*W*H)
	Warranty	5 Years

• Dimmable LED driver. Max. output power 15W

• 100-700mA 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.
- \bullet Class ${\rm I\!I}$ power supply, full isolated plastic case

• High power factor and efficiency

• Radio Frequency : Default 869.5/916.5(1009 Version), Available 868/434mhz(2504 Version)

- To switch and dim 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

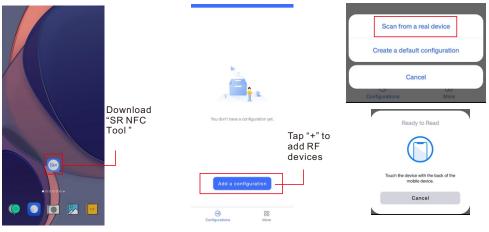
Note

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.

Cancel	Add configuration	Save
Device Typ	e	RF CCT
Product Id	Ox	05000002
Hardware v	version	1 (0x01)
Software v	ersion	1 (0x01)
Dimming c	urve DA	LI Standard
Power on s	tate	Latest
On off tran	sition time	5
Target curr	rent	300.0mA
Minimum c	urrent compensation	0.00%
Enable pair	ring	Ignore



Config	gurations +
15W CCT RF CCT	>

Step 3: Unlock device, enter parameters configuring page.

< 15W CCT	6		< 15W CC	ா மீ		<	Options
Device Type	RF CCT	Locked	Device Type	RF CCT	Unlock it	0	Hardware version Software version
Product Id	0x05000002		Product Id	0x05000002		0	Dimming curve
Hardware version	1 (0x01) 1 (0x01)		Options	>		0	Power on state
			Hardware version	1 (0x01) >			
Dimming curve	DALI Standard		Software version	1 (0x01) >		0	transition time
Power on state	Latest		Dimming curve	DALI Standard >		0	Target current
On off transition time	5		Power on state	Latest >		ø	Minimum current compensation
Target current	300.0mA		On off transition time	5 >			
Minimum current compens	ation 0.00%		Target current	300.0mA >		0	Enable pairing
Enable pairing	Ignore		Minimum current compens	sation 0.00% >			
Set All Attrib	putes		Enable pairing Set All Attri	lanore >			Unselect All Select All

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.

< 15W (லா மீ
Device Type	RF CCT
Product Id	0x05000002
Options	>
Hardware version	1 (0x01) >
Software version	1 (0x01) >
Dimming curve	DALI Standard >
Power on state	Latest >
On off transition time	5 >
Target current	300.0mA >
Minimum current comp	ensation 0.00% >
Enable pairing	lanore >
Set All At	tributes
< 15W 0	ண மீ
Device Type	RF CCT
Product Id	0x05000002
Options	>
Hardware version	1 (0x01) >
Software version	1 (0x01) >
Dimming curve	DALI Standard >
Power on state	Latest >
On off transition time	5 >
Target current	300.0mA >
Minimum current comp	
Minimum current comp	
Enable pairing	lanore >

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.

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

	15W ССТ 🗗
Device Type	RF CCT
Product Id	0x05000002
Options	>
Hardware version	1 (0x01) >
Software version	1 (0x01) >
Dimming curve	DALI Standard >
Power on state	Latest >
On off transition t	time 5 >
Target current	300.0mA >
Minimum current	compensation 0.00% >
Enable pairing	Ignore >
Set /	All Attributes

1) 0(No fade): Fatest transition
2) 15: Longest transition
3) 3(Default): Soft transition

< 15W C	ст	්
Device Type	RF C	ст
Product Id	0x050000	02
Options		>
Hardware version	1 (0x01)	>
Software version	1 (0x01)	>
Dimming curve	DALI Standard	>
Power on state	Latest	>
On off transition time	5	>
Target current	300.0mA	>
Minimum current compe	nsation 0.00%	>
Enable pairing	lanore	>

Cancel	Enable pairing	Save
Enable pair	ring	
Clear all pa	ired devices	
Ignore		\checkmark

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.

<	15W CCT		්
Device Type		RF C	СТ
Product Id	(0x050000	02
Options			>
Hardware versi	on	1 (0x01)	>
Software version	'n	1 (0x01)	>
Dimming curve	DAL	I Standard	>
Power on state		Latest	>
On off transitio	n time	5	>
Target current		300.0mA	>
Minimum curre	nt compensatior	n 0.00%	>
Enable pairing		lanore	>
Se	t All Attribute	5	

Enable pairing

Gancer	larget current	Save	
3000		300.0mA 1=0.1mA	
Value range	1000-50000		
			Ir
			N
			W d

Write

Read

Read

Write

nput the working current of the LED.

Min.0.1mA per gear as a option.

Which massively free the options among different luminaries specification

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. Read before you Move.

<	15W CCT	ദ്
Device Type		RF CCT
Product Id	0×0	5000002
Options		>
Hardware version	1	(0x01) >
Software version	1	(0x01) >
Dimming curve	DALI St	andard >
Power on state		Latest >
On off transition t	ime	5 >
Target current	30	10.0mA >
Minimum current	compensation	0.00% > 7

Iqnore >

0.00%

Current compensation setting:

Enables you achieve the best dimming performance per different current gear.

But still we gave the options to customers which enable customized setting.

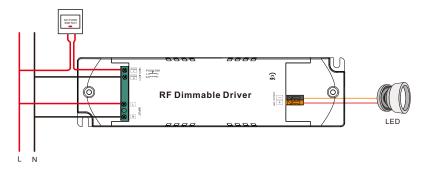
Wiring Diagram

1. Work as Pure RF driver

1.1 With single color LED luminarie



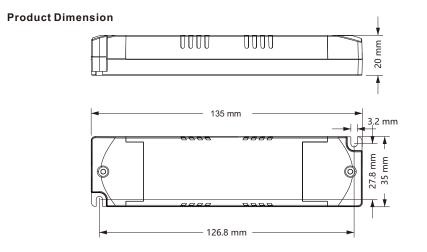
2. Work with Pure RF driver and AC PUSH function



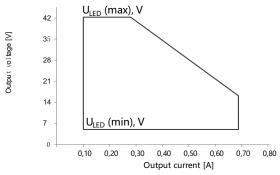
AC Push Function

1) Click the button to switch ON/OFF

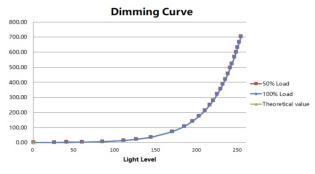
2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.



Operating window

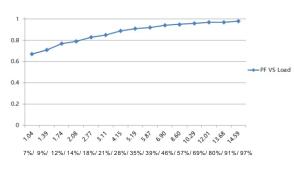






Note: Test data under 700mA gear

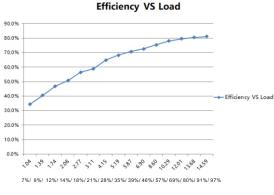




PF VS Load

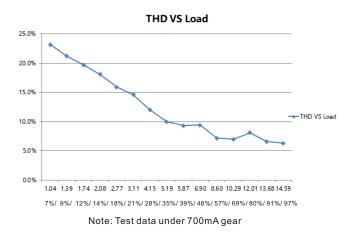
Note: Test data under 700mA gear

Driver Performance



Note: Test data under 700mA gear

Driver Performance



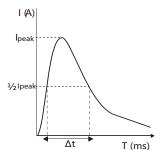
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-1009N-15CC100-700 SRP-2504N-15CC100-700	100 – 700 mA	Тс	50 °C	60 °C	70 °C	•••	85 °C
SRP-1009N-15CCT100-700 SRP-2504N-15CCT100-700	100 – 700 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	n Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-1009N-15CC100-700 SRP-2504N-15CC100-700	3.96A	90µs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200
SRP-1009N-15CCT100-700 SRP-2504N-15CCT100-700		90µs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200



Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.

2.For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.

 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.