SUNRICHER 65W 2 Channels Zigbee LED Driver Instruction Manual

Contents

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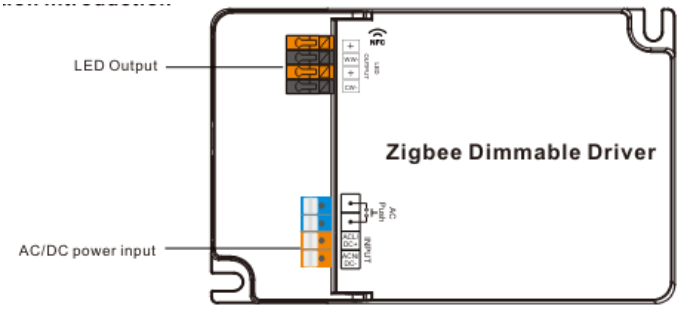
65W 2CH Zigbee NFC Enabled LED Driver(Constant Current)



Important: *Read All Instructions Prior to Installation*

Product Data

Output	LED Channel	2
	DC Voltage	6-54V
	Current	500-1500mA via NFC setting; Min.current gear lower to 0.1mA,Default 1050mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 65W
	Voltage Range	200-240VAC/200-240VDC

Input	Absolute Voltage Range	176-264VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.98 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 6% (@ full load / 230VAC)
	Efficiency (Typ.)	90% @ 230VAC full load
	AC Current (Typ.)	0.4A @ 230VAC
	Inrush Current (Typ.)	Max. 9.68A at 230VAC; 70μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	0.5W
	Anti Surge	L-N:2KV
Control	Dimming Interface	Zigbee
	Dimming Range	0.01%-100%@ Max current
	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
Environment	Working Temp.	-25℃ ~ +45℃
	Max. Case Temp.	TC=85℃ (Ta=”45℃”)
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	En55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	En61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25℃ ambient temperature
	Dimension	123.9×78.8x30mm (L*W*H)
	Warranty	5 Years

- Dimmable LED driver, ZigBee device based on ZigBee 0 protocol
- Dimmable LED Max. output power 65W
- 500-1500mA current selectable via NFC program Min.current gear lower to 0.1mA
- Dimming curve/Power on state/Soft start/Soft off via NFC program
- Class Ⅱ power supply, full isolated plastic case
- High power factor and efficiency

- PUSH DIM function enabled
- Able to On/Off and control LED lighting luminaries‘ brightness and color temperature
- Amplitude/CCR dimming, smooth and deep dimming
- ZigBee end device that supports Touchlink commissioning
- Can directly pair to a compatible ZigBee remote via Touchlink
- Supports find and bind mode to bind a ZigBee remote
- Supports zigbee green power and can bind 20 zigbee green power switches
- Compatible with universal ZigBee gateway products
- Waterproof grade: IP20, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

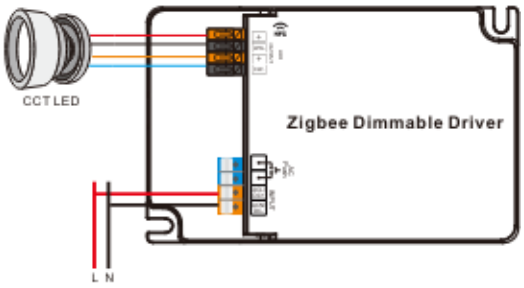
- DO NOT install with power applied to the
- DO NOT expose the device to

Operation–Zigbee Network

1. **Do wiring according to connection diagram**
2. **This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.**

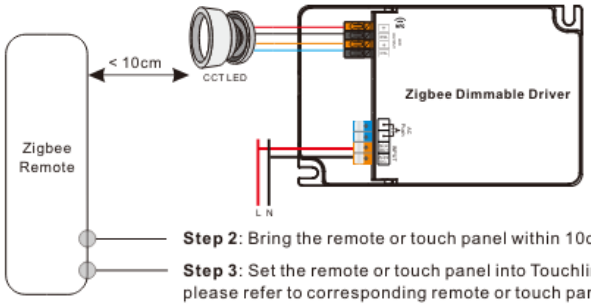
3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

Step 1: Remove the device from previous zigbee network if it has already been added to, otherwise pairing will fail.
Step 2: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.
Step 3: power on the device, it will be set into network pairing mode (connected light flashes twice slowly), thenetwork pairing mode will last until the device is added to a zigbee network



Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.

- **TouchLink after both added to a ZigBee network, each device can link with 30 remotes.**
- **To control by both gateway and remote, add remote and device to network first then**
- **After TouchLink, the device can be controlled by the linked**

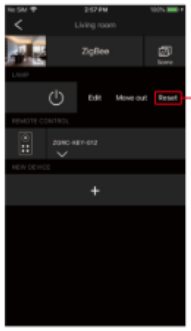


Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

Step 2: Bring the remote or touch panel within 10cm of the lighting device.

Step 3: Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.

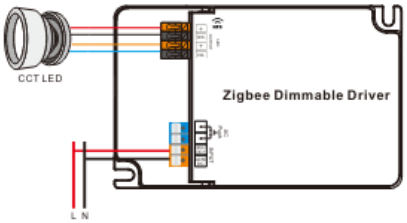
5. Removed from a Zigbee Network through Coordinator or Hub Interface



From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

Factory Reset Manually

Step 1: Enable Pairing via NFC App or re-power on the device for 5 times continuously .

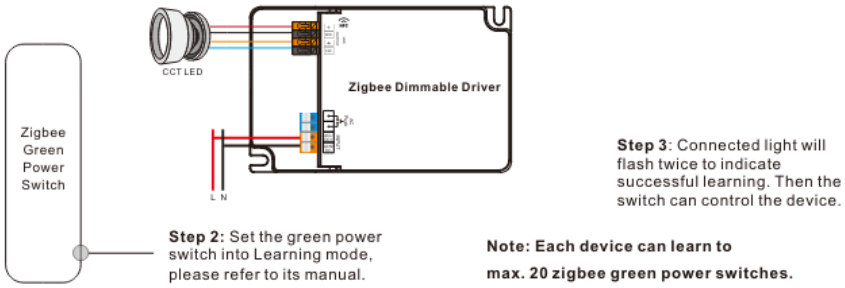


Step 2: Connected light will blink 3 times to indicate successful reset.

2) All configuration parameters will be reset after the device is reset or removed from the network.

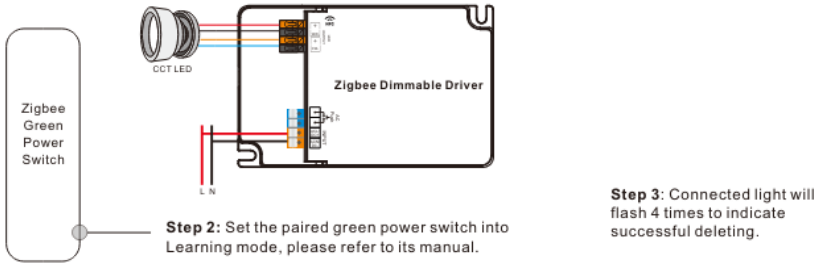
Find and Bind Mode

Step 1: Re-power on the device (initiator node) 3 times to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation



Learning to a Zigbee Green Power Switch

Step 1: Re-power on the device 4 times to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat the operation.



ZigBee Clusters the device supports are as follows:

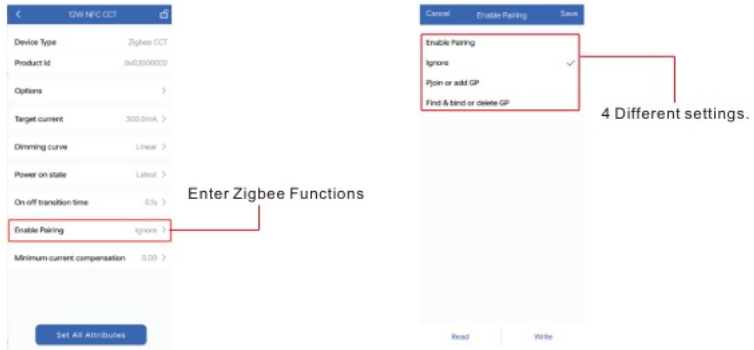
Input Clusters

- 0x0000: Basic 0x0003: Identify • 0x0004: Groups • 0x0005: Scenes • 0x0006: On/off
- 0x0008: Level Control 0x0300: Color Control • 0x0b05: Diagnostics

Output Clusters

- 0x0019: OTA

Function setting Via “SR NFC TOOL



1. Enable the Zigbee NFC drivers enter the pairing mode and add it into the Zigbee
2. Factory Enable the configured Zigbee NFC driver into configuring mode.

3. Besides, you can re-power the device 5 times to enable this section as

Step 3: Unlock device, enter parameters configuring page.

Note

- **Do wiring according to the wiring diagram .**
- **Recommend setting parameters without power-on devices .**

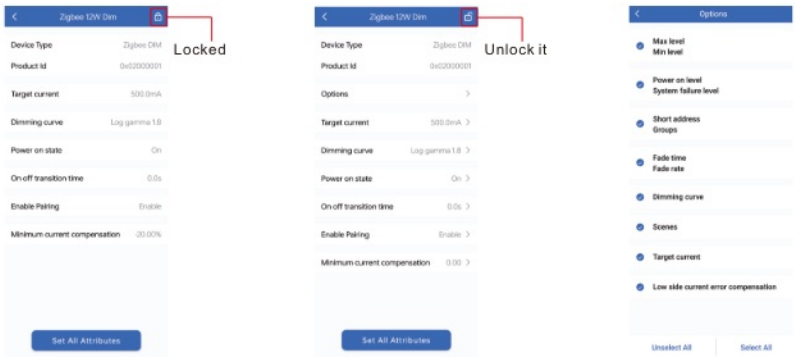
2) Please make sure your mobile phone has NFC function and enable it .

Working with "SR NFC Tool" APP
Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Playstore) . 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
3. Please do not power on the device before
4. If you can't download "SR NFC Tool". Please contact with

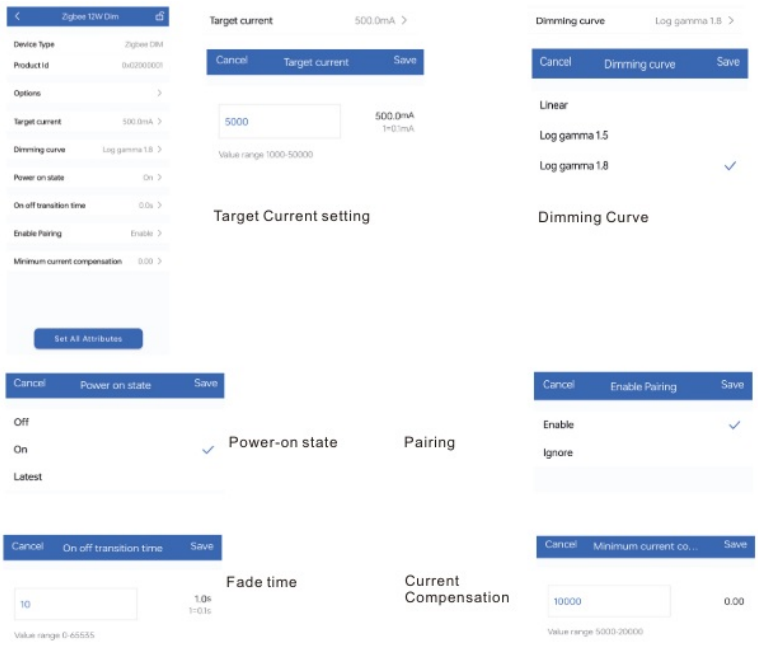
Step 3: Unlock device, enter parameters configuring page.



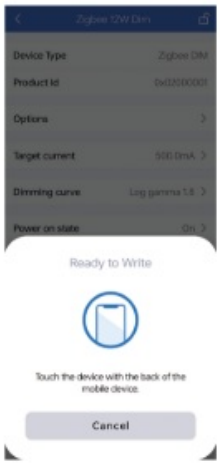
Note: 1. You have to unlock the device then do some settings

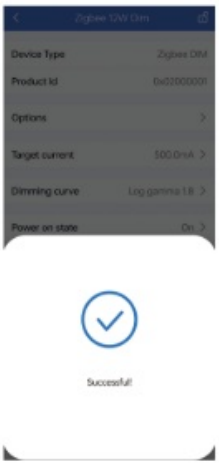
2. Only when the corresponding function is selected, the function interface will be displayed.

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



Step 5: After setting, please save the selected configuration via NFC and power on the device.

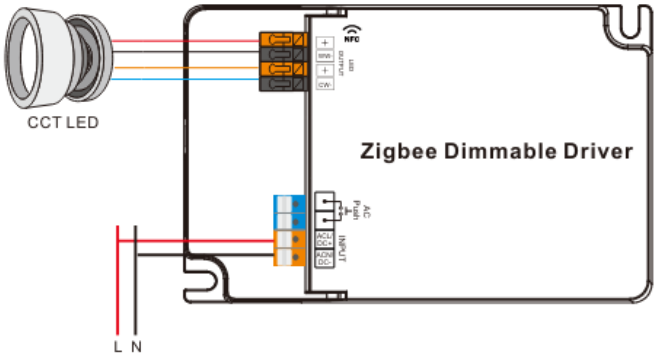




Tips

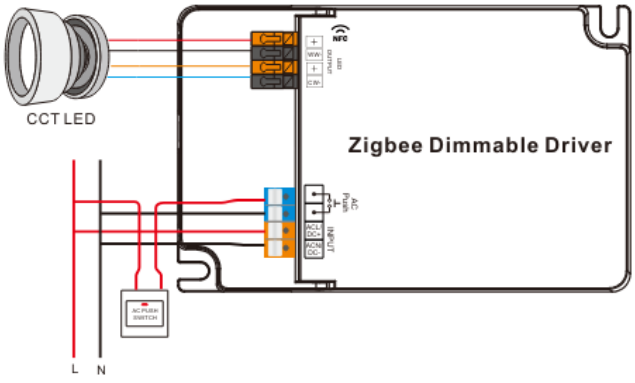
Wiring Diagram

Application 1 Without PUSH

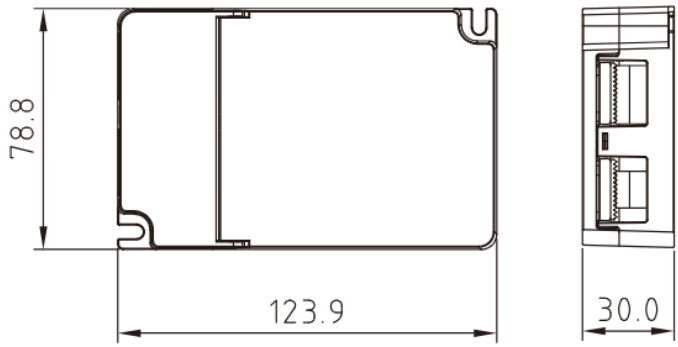


Note: Avaliable with 3-wire CCT luminaries as well

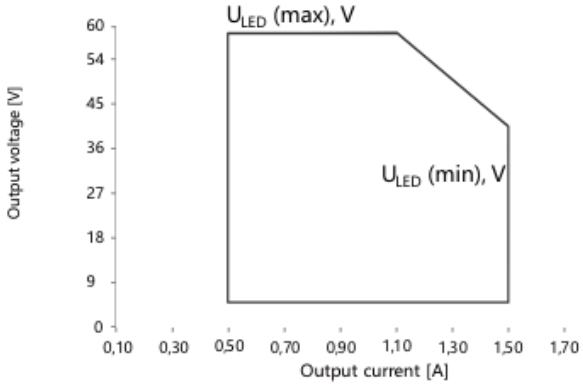
Application 2 With PUSH



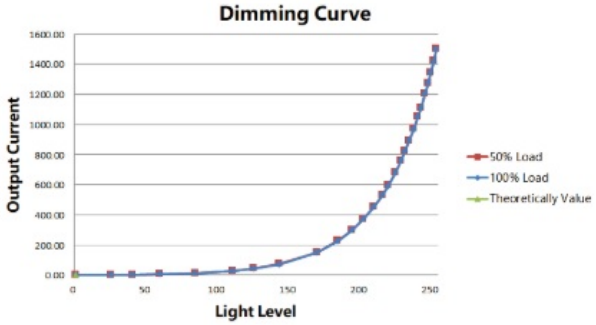
Product Dimension



Operating window

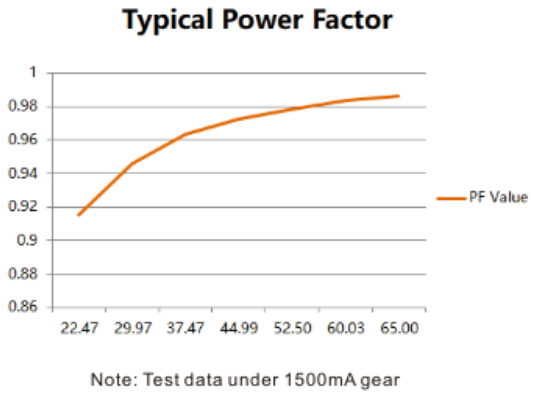


Dimming Curve



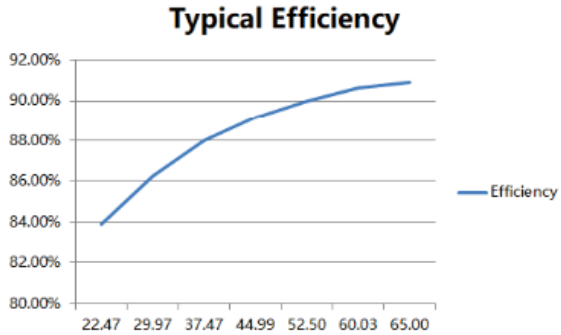
Note: Test data under 1500mA gear

Driver Performance



Note: Test data under 1500mA gear

Driver Performance

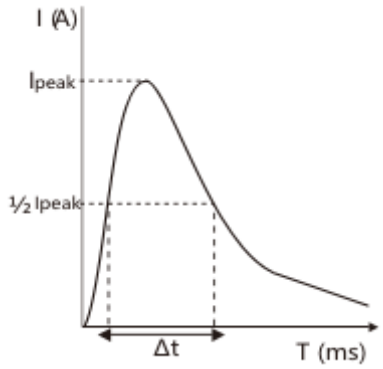


Note: Test data under 1500mA gear

Module Number	**Ipeak**	**Twidth**	**Max.quantity of LED Driver per MCB** B10 B13 B16 B20 B25 C10 C13 C16 C20 C25 D10 D13 D16 D20 D25													
SRP-ZG9105N-65CC500-1500	9.68A	70μs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57
SRP-ZG9105N-65CCT500-1500	9.68A	70μs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57

Note:

1. Those MCB parameters are based on ABB S200 series circuit
2. For different brands and models of miniature circuit breakers, the quantity of drivers will have
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site
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



- Type C MCB's are strongly recommended to use with LED lighting

Update log

Date	Version	Update content	Update by
2023-9-28	V1.0	Initial Version	Romeo

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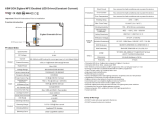
Documents / Resources

	SUNRICHER 65W 2 Channels Zigbee LED Driver [pdf] Instruction Manual 65W 2 Channels Zigbee LED Driver, 65W, 2 Channels Zigbee LED Driver, Channels Zigbee LED Driver, Zigbee LED Driver, LED Driver, Driver

References

- User Manual