

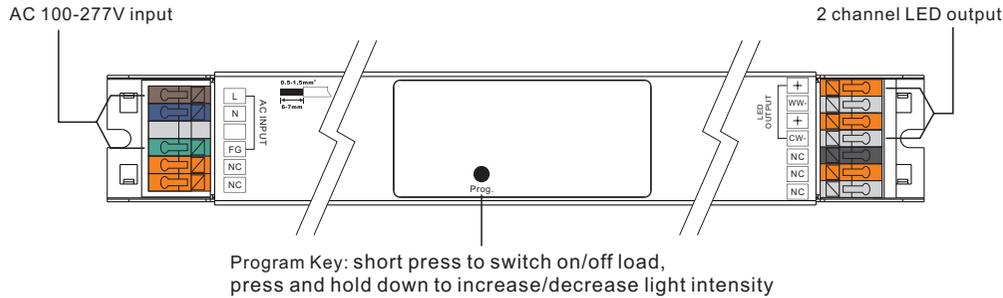
50W ZigBee LED Driver (Constant Voltage)

70260044-A



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Output	LED Channel	2	
	DC Voltage	12V DC	24V DC
	Max. Current	Max. 4.16A/ch, ch1+ch2=4.16A	Max. 2.08A/ch, ch1+ch2=2.08A
	Voltage Tolerance	±1%	
	Rated Power	max. 50W	
Input	Voltage Range	100-277V AC	
	Frequency Range	50/60Hz	
	Power Factor (Typ.)	> 0.98 @ 100VAC, > 0.95 @ 230VAC	
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)	
	Efficiency (Typ.)	85% @ 230VAC full load	86% @ 230VAC full load
	AC Current (Typ.)	0.6A @ 100VAC, 0.26A @ 230VAC, 0.23A@277VAC	
	Inrush Current (Typ.)	COLD START Max. 2A at 230VAC	
	Leakage Current	< 0.5mA /230VAC	
	Standby Power Consumption	< 0.5W	
Control	Dimming Interface	ZigBee	
	Dimming Range	0.1%-100%	
	Dimming Method	Pulse Width Modulation	
Protection	Over Current	Yes, recovers automatically after fault condition is removed	
	Over Temperature	Yes, recovers automatically after fault condition is removed	

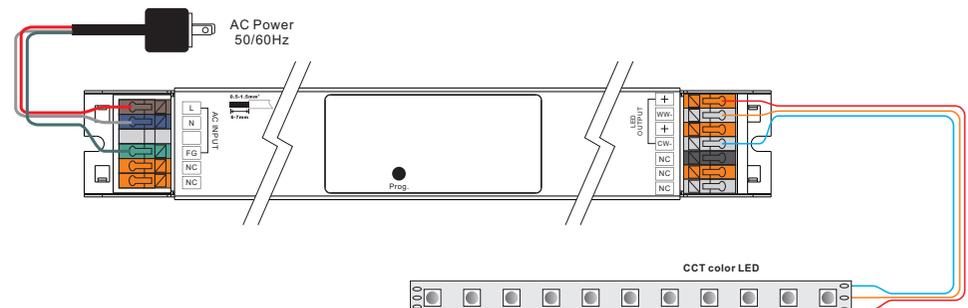
Environment	Working Temp.	-25°C ~ +45°C
	Max. Case Temp.	85°C (Ta="45°C")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	UL8750, CAN/CSA C22.2 No. 250.13-14, ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV
Others	MTBF	189100H, MIL-HDBK-217F @ 230VAC at full load and 25°C ambient temperature

- Ultra slim design for use in linear LED lighting, 2 channel 12/24VDC constant voltage output
- Class II power supply, full isolated metal case, built-in active PFC function
- PF > 0.96, Efficiency > 86%, low standby power < 0.5W
- Built-in ZigBee dimming interface based on ZigBee 3.0, supports Touchlink commissioning
- Compliant with Safety Extra Low Voltage standard
- Over load, over temperature protection
- Deep and smooth dimming to 0.1%
- Suitable for indoor LED lighting applications
- Enables to control ON/OFF, light intensity and CCT of connected CCT LED lights
- Can directly pair to a compatible ZigBee remote via Touchlink without coordinator
- Supports find and bind mode to bind a ZigBee remote
- Supports zigbee green power feature, and can bind to max. 20 zigbee green power remotes
- Compatible with universal ZigBee gateway products
- Compatible with universal CCT ZigBee remotes
- Waterproof grade: IP20
- 5 years warranty

Safety & Warnings

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

Wiring Diagram



Operation

1. Do wiring according to connection diagram correctly.

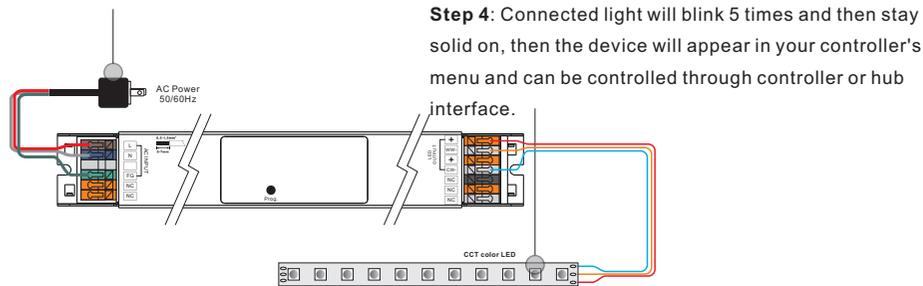
2. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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. Please refer to the part "Factory Reset Manually".

Step 2: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.

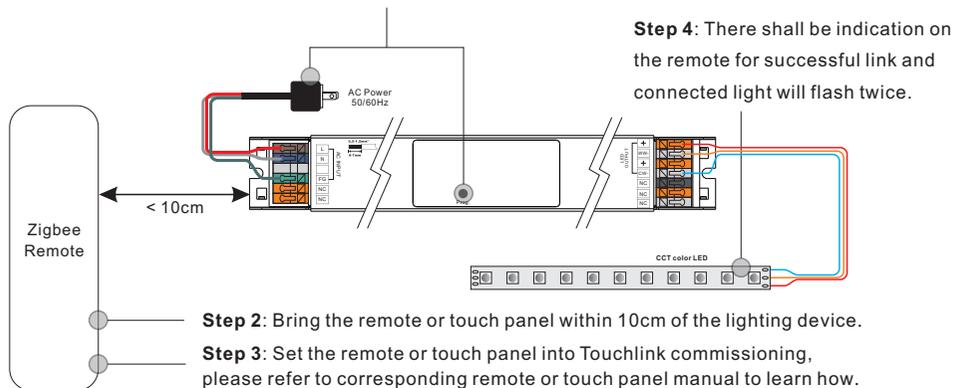
Step 3: power on the device, it will be set into network pairing mode (connected light flashes twice slowly), the network pairing mode will last until the device is added to a zigbee network.



4. TouchLink to a Zigbee Remote

Step 1: Method 1: Short press "Prog" button (or re-power on the device) 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation.

Method 2: If the device is already added to a network, it will be set into Touchlink commissioning immediately, 180S timeout. Once timeout, re-power on the device to set it into touchlink commissioning again.



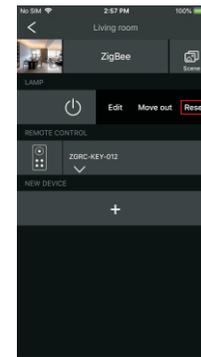
Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.

2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.

3) For Third-Party Automation Devices, add remote and device to network first then TouchLink.

4) After TouchLink, the device can be controlled by the linked remotes.

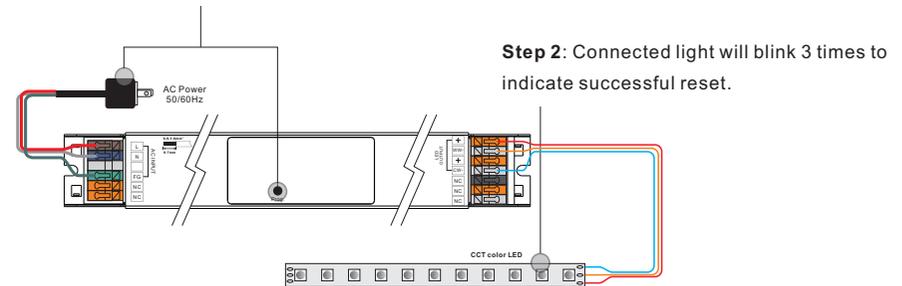
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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.

6. Factory Reset Manually

Step 1: Short press "Prog." key for 5 times continuously or re-power on the device for 5 times continuously if the "Prog." key is not accessible.

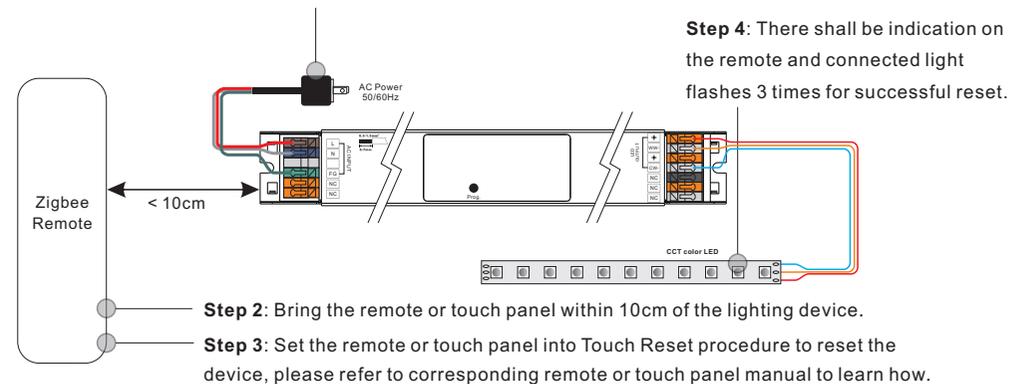


Note: All configuration parameters will be reset after the device is reset or removed from the network.

7. Factory Reset through a Zigbee Remote (Touch Reset)

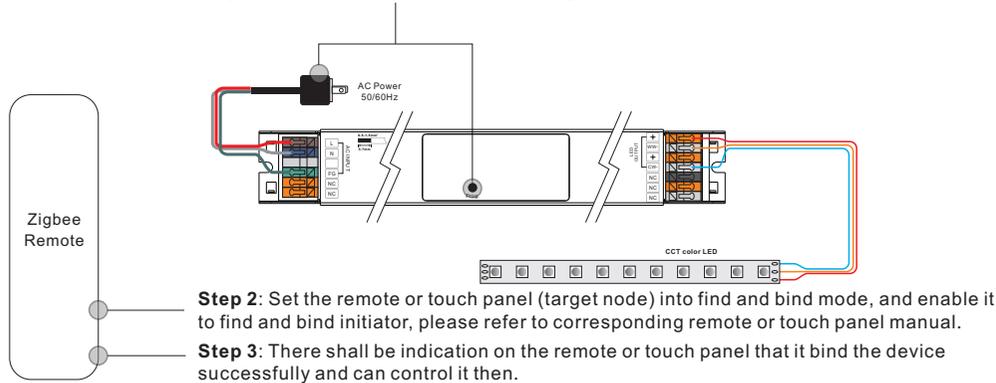
Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.

Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds timeout, repeat the operation.



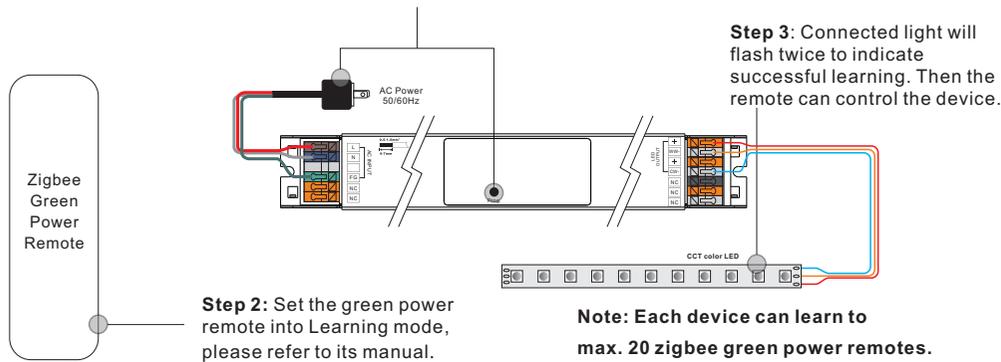
8. Find and Bind Mode

Step 1: Short press “Prog.” button 3 times (Or 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.



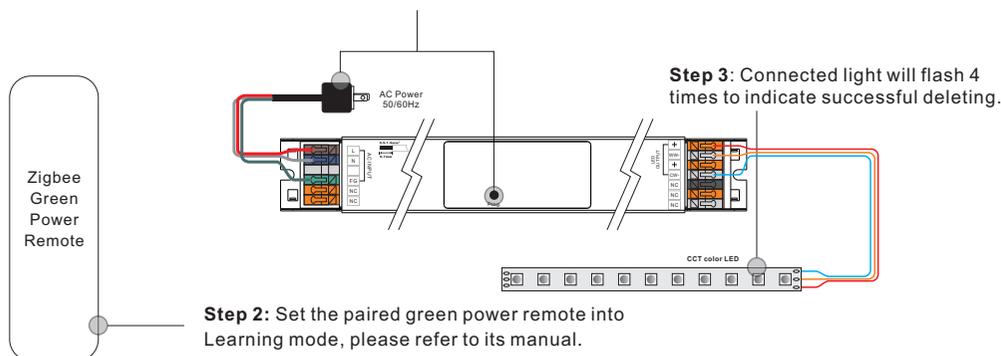
9. Learning to a Zigbee Green Power Remote

Step 1: Short press “Prog.” button 4 times (Or re-power on the device 4 times) to start Learning mode (connected light flashes twice), 180 seconds timeout, repeat the operation.



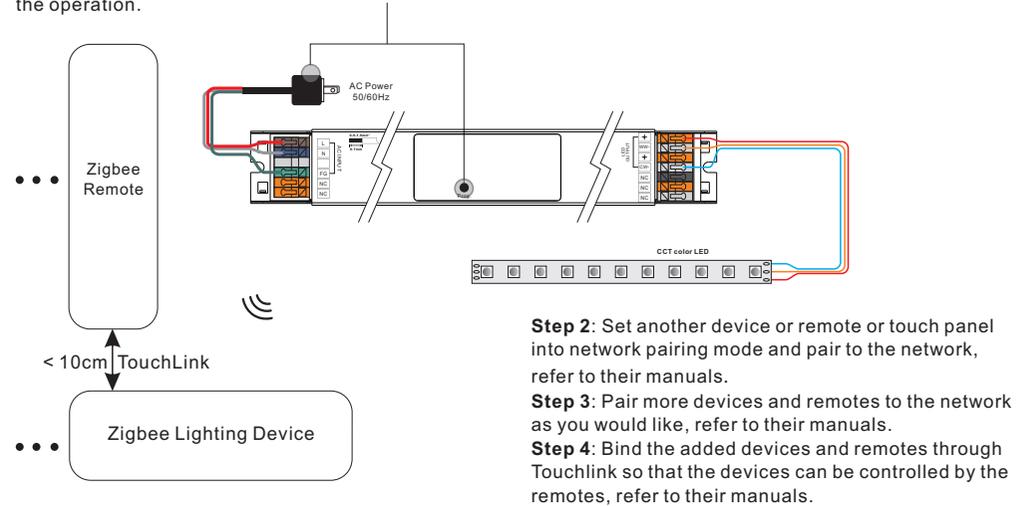
10. Delete Learning to a Zigbee Green Power Remote

Step 1: Short press “Prog.” button 3 times (Or re-power on the device 3 times) to start delete Learning mode (connected light flashes slowly), 180 seconds timeout, repeat the operation.



11. Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)

Step 1: Short press “Prog.” button 4 times (Or re-power on the device 4 times) to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat the operation.



Note: 1) Each added device can link and be controlled by max. 30 added remotes.
2) Each added remote can link and control max. 30 added devices.

12. 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

13. OTA

The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

Product Dimension(Unit:mm)

