Manuals+ — User Manuals Simplified.

50W ZigBee CCT LED Driver Instruction Manual

50W ZigBee CCT LED Driver(constant current)

Important: Read All Instructions Prior to Installation

Contents

Function introduction

8-230V Push Switch Input

Program Key: short press to switch on/off load, press and hold down to increase/decrease light intensity

2 channels CCT output

AC 200-240V input

Dips to set the operation current

Product Data

Output	Selectable Current	250mA	300mA	350mA	400mA	450mA	500mA	600mA	700mA
	DC Voltage Range	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V
	Selectable Current	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	1500mA
	DC Voltage Range	8-48V	8-48V	8-48V	8-46V	8-41V	8-38V	8-35V	8-33V
	Rated Power	50W max.							
Input	Voltage Range	200-240V AC							
	Frequency	50/60Hz							
	Power Factor (Typ.)	>0.9							

	Efficiency (Typ.)	87% @ 230VAC
	Input Current	0.27A @ 230VAC
	Inrush Current (Typ.	COLD START Max. 2A @ 230VAC
Protection	Short Circuit	Yes, auto-recovery after fault removed
	Over Voltage	Yes, auto-recovery after fault removed
	Over Temperature	Yes, auto-recovery after fault removed
Environment	Working Temp.	-20℃ ~ +45℃
	Max. Case Temp.	85℃ (Ta=”45℃”)
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH

Safety&EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	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	190300H, MIL-HDBK-217F @ 230VAC at full load and 25°C ambient temperature
	Dimension	210*50*32mm (L*W*H)

Dips to set the operation current

- Dimmable LED driver for tunable white
- ZigBee CCT LED light device based on ZigBee 3.0 protocol
- Max. output power 50W total
- 2 channels 250-1500mA constant current output, dips to select multi-operation current
- Class Ⅱ power supply, full isolated plastic case
- Built-in active PFC function, high power factor, and efficiency
- Deep and smooth dimming to 0.1%
- Enables to control ON/OFF, light intensity and CCT of connected CCT LED lights
- 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 max. 20 Zigbee green power switches
- Compatible with universal ZigBee gateway products
- Compatible with universal CCT ZigBee remotes
- With Push, Dim function can be controlled by universal 8-230V input single wire push switch
- Waterproof grade: IP20, 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.

Wiring Diagram
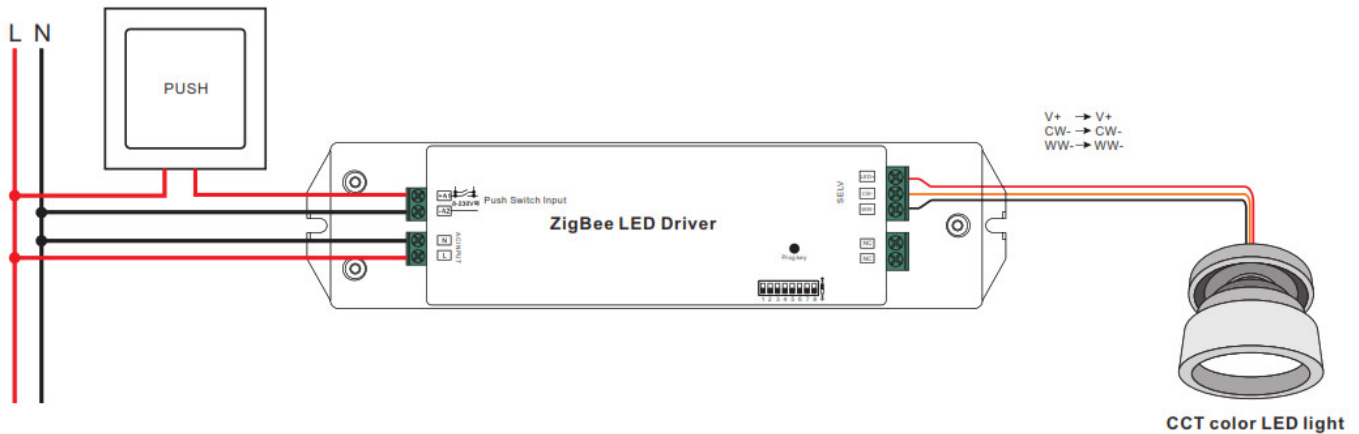
Operation

1. Do wiring according to the 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 the 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 a lighting device and enter Pairing mode as instructed by the controller.
Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.
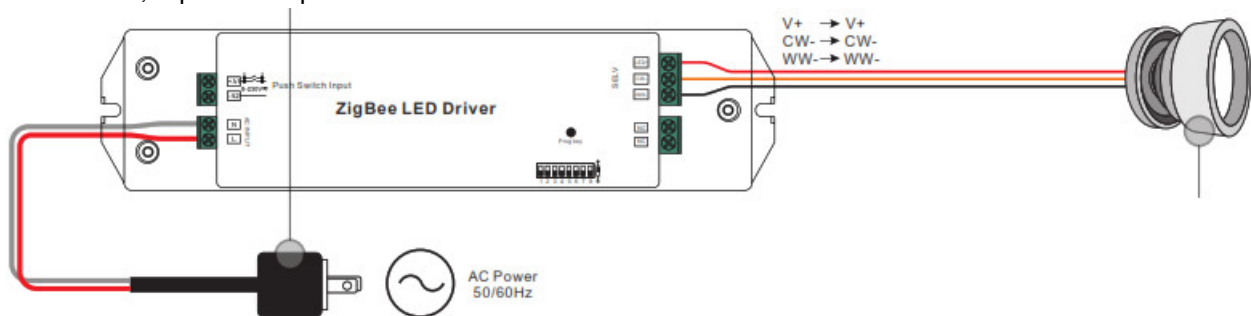

Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through the controller or hub interface.

4. **TouchLink to a Zigbee Remote**

Step 1: Method 1: Short press the "Prog" button 4 times (or re-power on the device 4 times) to start Touchlink commissioning immediately, 180S timeout, repeat the operation.
Method 2: Re-power on the device, Touchlink commissioning will start after 15S if it's not added to a Zigbee network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat the operation.
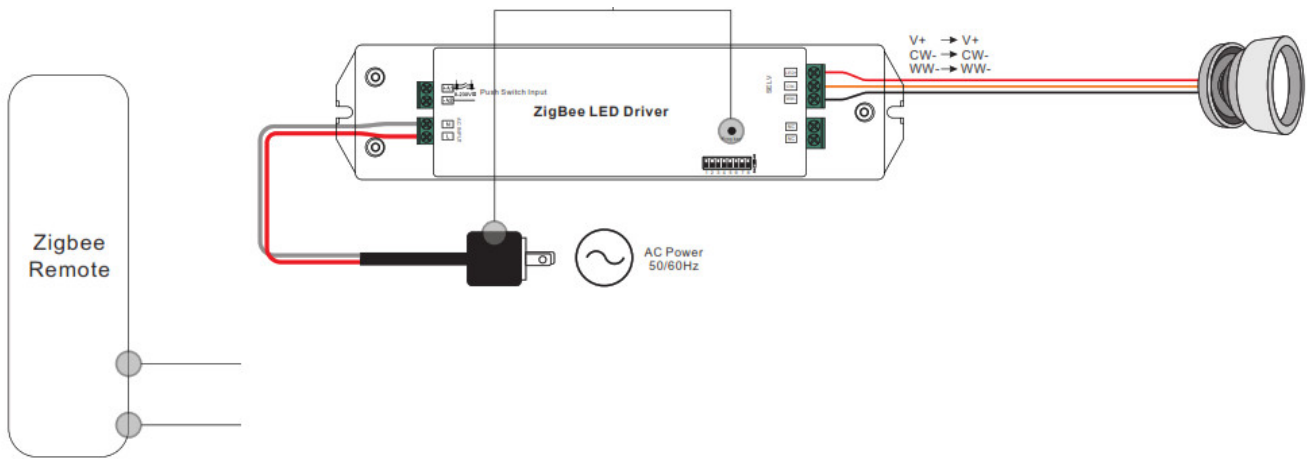
Step 2: Bring the remote or touch panel within 10cm of the lighting device.

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

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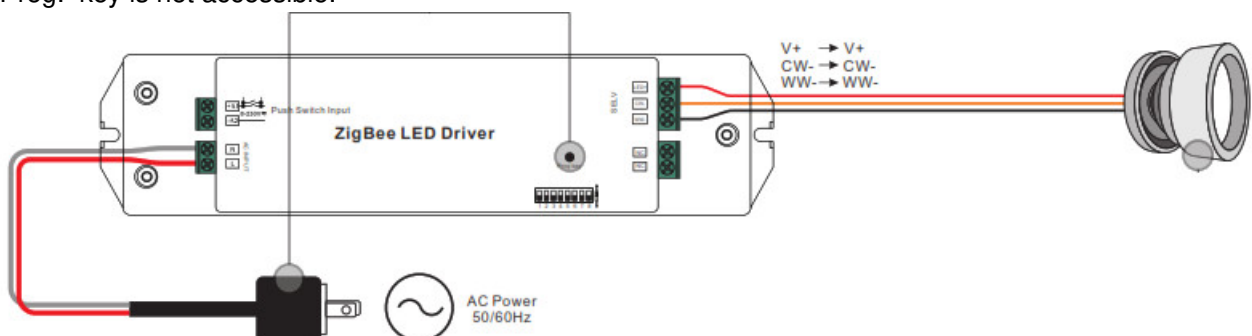
Note

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

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

3. To control by both gateway & remote, add remote and device to the 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
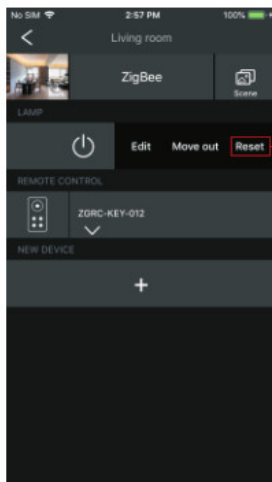
From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

6. **Factory Reset Manually**

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

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

1. If the device is already at the factory default setting, there is no indication when the factory reset again.

2. 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 is 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.
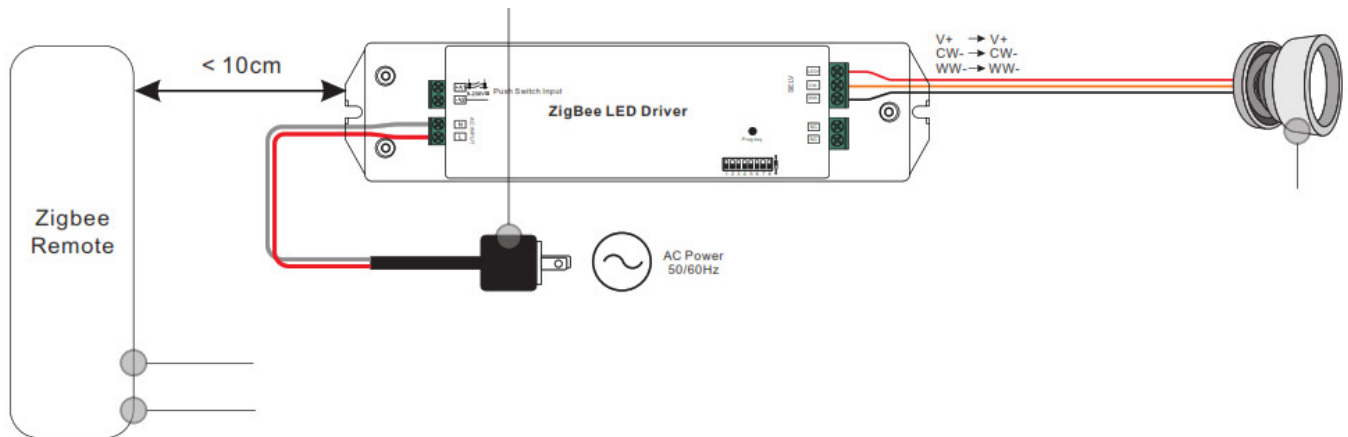

Step 2: Bring the remote or touch panel within 10cm of the lighting device.
Step 3: Set the remote or touch panel into the Touch Reset procedure to reset the device, please refer to the corresponding remote or touch panel manual to learn how.
Step 4: There shall be an indication on the remote and connected light flashes 3 times for successful reset.

8. **Find and Bind Mode**
Step 1: Short press the "Prog." button 3 times (Or re-power on the device (initiator node) 3 times) to start to Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation.
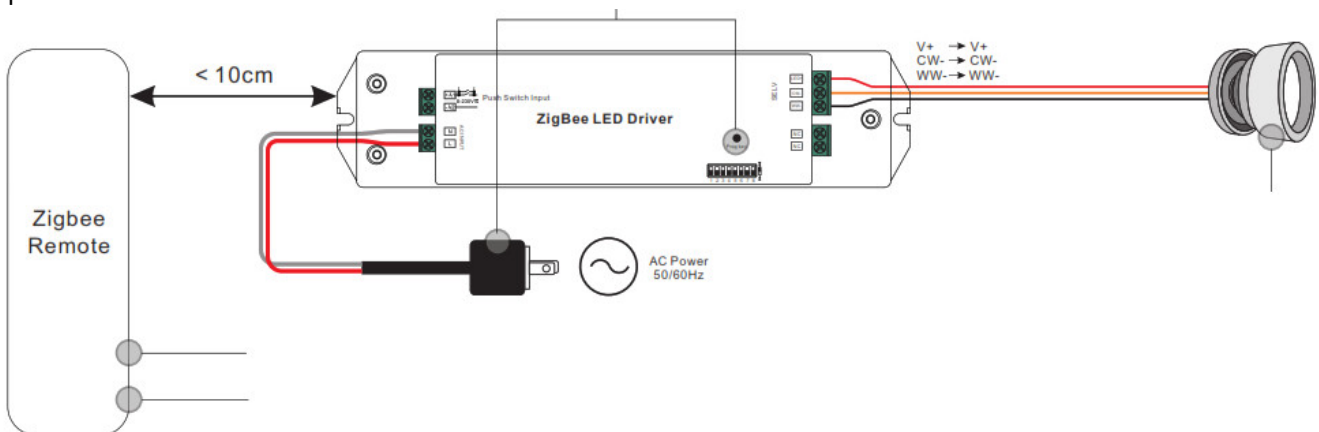

Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to the corresponding remote or touch panel manual.
Step 3: There shall be an indication on the remote or touch panel that it bind the device successfully and can control it then.

9. **Learning to a Zigbee Green Power Switch**
Step 1: Short press the "Prog." button 4 times (Or re-power on the device 4 times) to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat the operation.
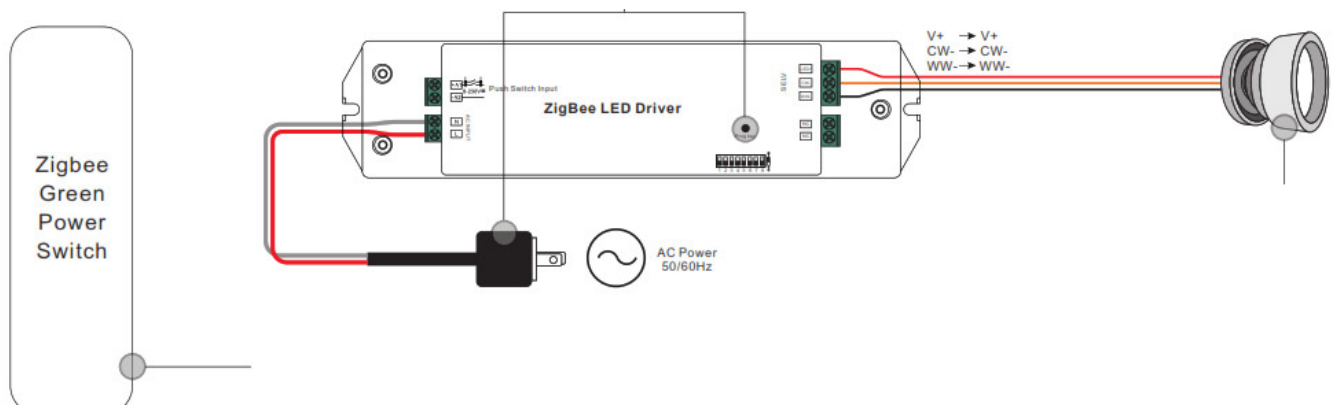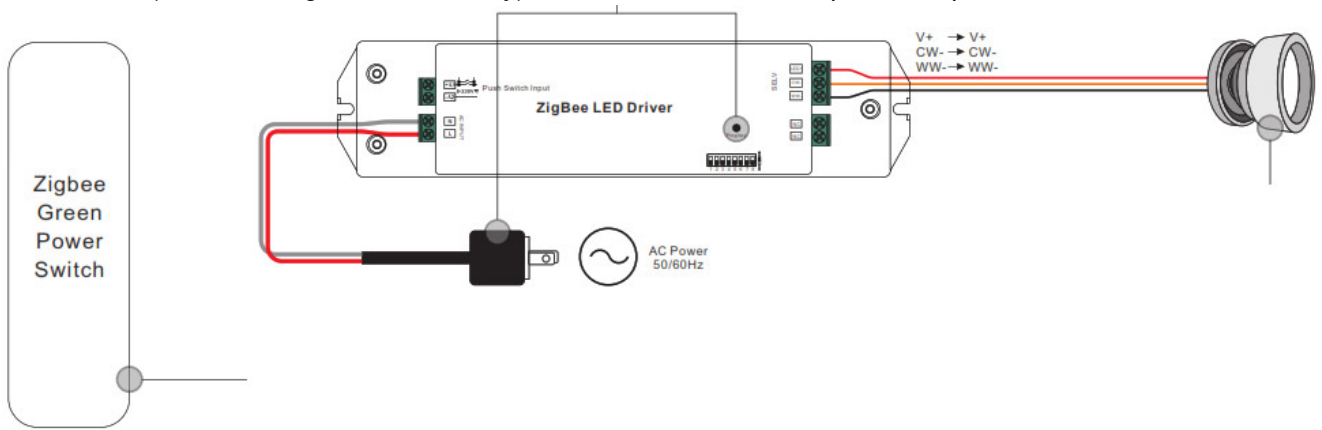
Step 2: Set the green power switch into Learning mode, please refer to its manual.

Step 3: Connected light will flash twice to indicate successful learning. Then the switch can control the device.

10. Delete Learning to a Zigbee Green Power Switch

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


Step 2: Set the paired green power remote into Learning mode, please refer to its manual.

Step 3: Connected light will flash 4 times to indicate successful deleting.

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

Step 1: Short press the "Prog." button 4 times (Or re-power on the device 4 times) to enable the device to set up a Zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat the operation.
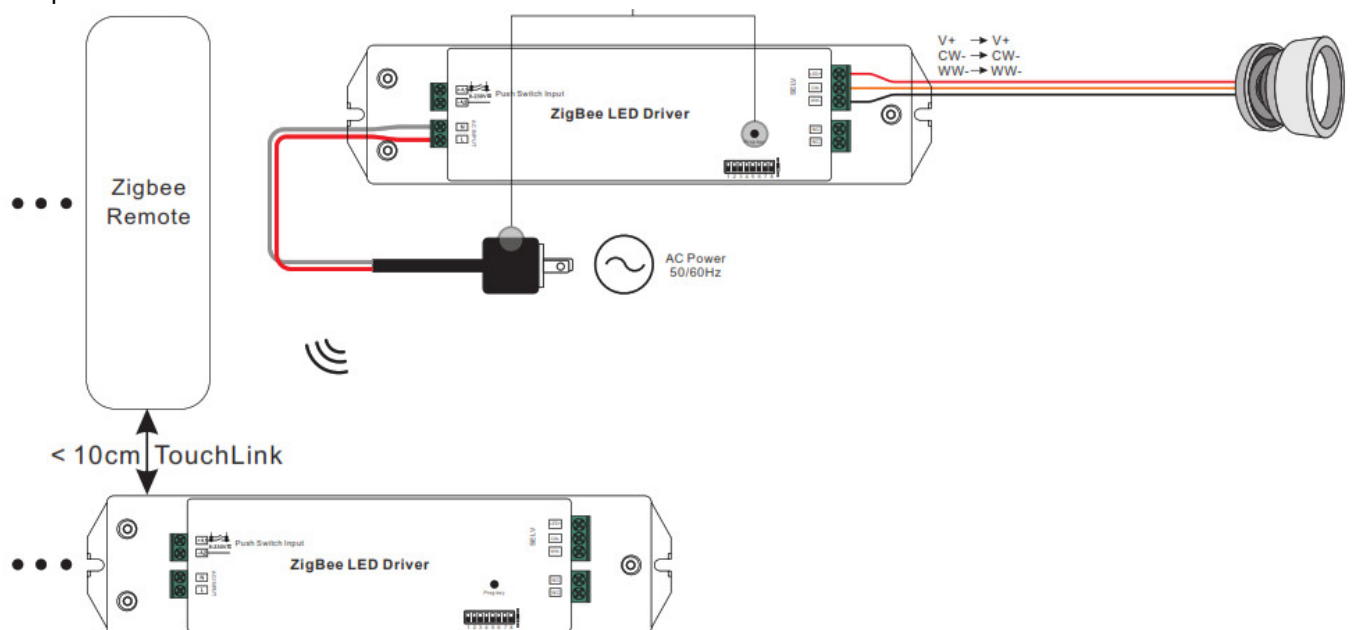
Step 2: Set another device or remote or touch panel into network pairing mode and pair to the network, refer to their manuals.

Step 3: Pair more devices and remotes to the network as you would like, refer to their manuals.
Step 4: Bind the added devices and remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

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
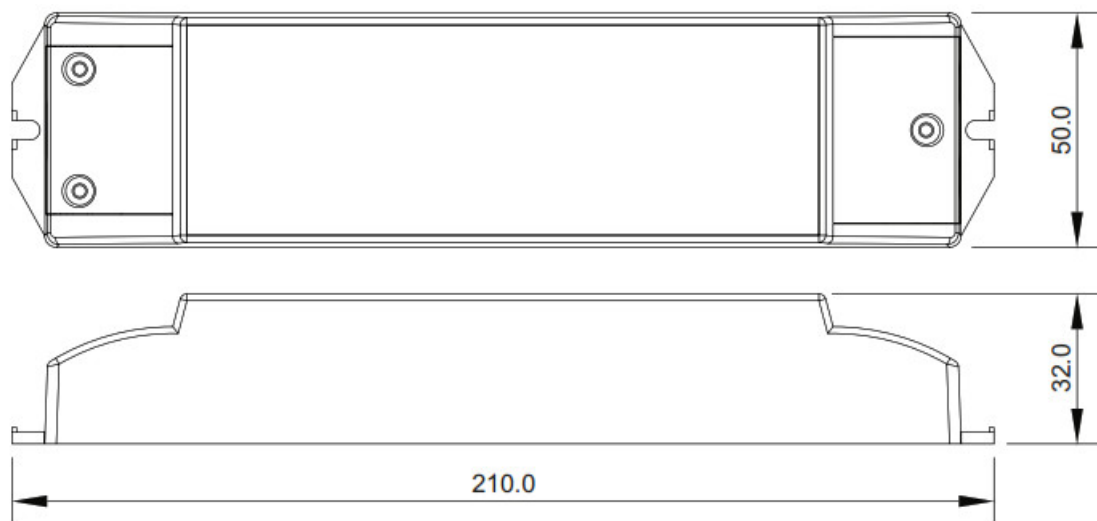**Output Clusters**
• 0x0019: OTA
13. **OTA**
The device supports firmware updating through OTA and will acquire new firmware from the Zigbee controller or hub every 10 minutes automatically.

Product Dimension

Documents / Resources

Zigbee 50W ZigBee CCT LED Driver [pdf] Instruction Manual
50W, ZigBee, CCT, LED Driver