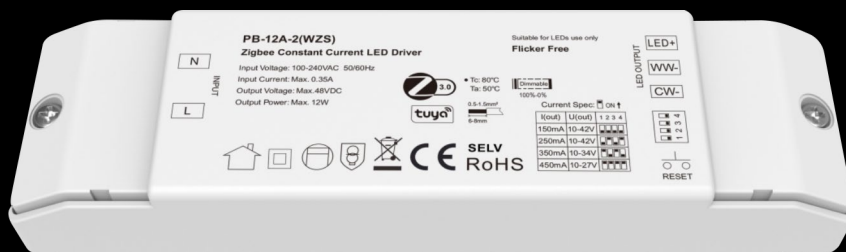




# Teralux PB-12A (WZS) User Manual

Zigbee Constant Current CCT LED Driver

CE RoHS RED



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# Teralu PB-12A (WZS)

## Zigbee Constant Current CCT LED Driver

The Clario Driver Series PLDZIG-PB-12A-2(WZS) is a Zigbee 3.0-enabled, 12W constant current LED driver from TERALUX, perfect for modern indoor lighting. It accepts a 100-240VAC input and provides two channels with configurable current output options from 150mA to 450mA (10-42VDC).

This driver offers flicker-free 0-100% dimming and supports comprehensive smart control via the Tuya App and voice commands (Alexa, Google, Amazon ECHO, TmallGenie). Its features include robust Zigbee mesh networking, easy current selection via DIP switch, and full protection circuitry, making it ideal for downlight, spotlight, and decorative applications in residential and commercial environments.

### Features

Tuya smart APP cloud control, support color temp and brightness adjust, delay turn on/off, timer run, scene edit, sleep wake-up and biorhythms function.

Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.

Can relay and route to each other, up to 1.5 hops.

Match with Zigbee 3.0 remote or scene panel control.

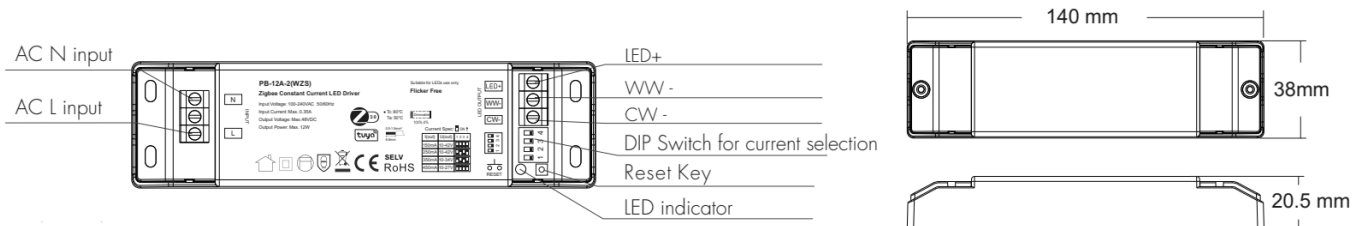
Reset key for clearing network connection.

Universal AC input / Full range.

2ch constant current output, configurable current via DIP switch.

Overload / Short circuit protection, recover automatically.

### Mechanical Structure



## Technical Parameter

### Zigbee Constant Current CCT LED Driver


Engineered for modern smart lighting, this driver delivers smooth, accurate CCT adjustment with dependable efficiency and compatibility with Zigbee systems.

Category	Item	Specification
Output	Output Voltage	10–42VDC
	Output Current	2×(150–450)mA
	Output Power	Max. 12W
	Max Output Voltage	10–42VDC
	Dimming Range	0–100%
	PWM Frequency	4KHz
	Current Accuracy	±5%
	Input Voltage Range	100–240VAC
	Frequency Range	50/60Hz
	Efficiency	80%
Input	Input Current	0.35A Max.
	Anti Surge	L–N: 1.2KV
	Startup Time	1S / 230VAC
	Inrush Current	Cold start 14.5A at 230VAC
	Leakage Current	<0.5mA / 230VAC
	No Load Power	<2W

















# Technical Parameter

## Zigbee Constant Current CCT LED Driver

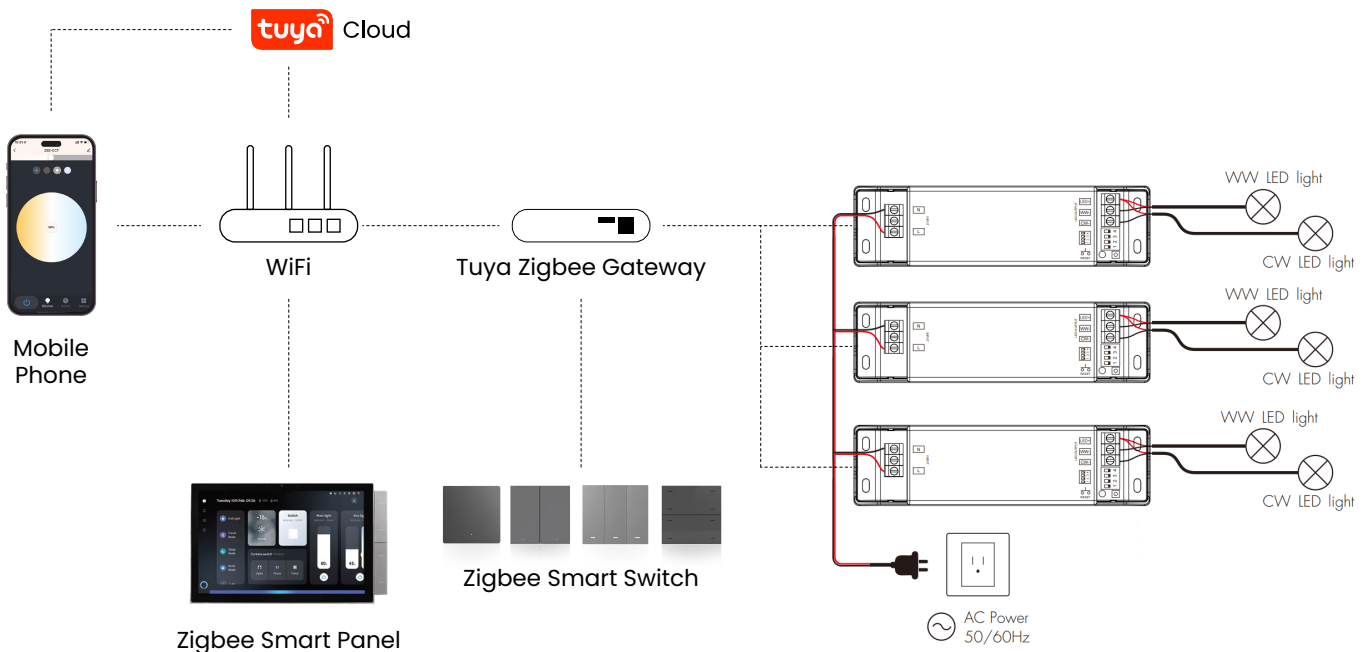
A compact and reliable LED driver designed for stable CCT control, ensuring consistent performance across various lighting applications.

Category	Item	Specification
Protection	Overload	Hiccup, recovers automatically after fault is removed
	Short Circuit	Hiccup, recovers automatically after fault is removed
Environment	Working Temperature	-20°C ~ 50°C
	T-case Max	80°C
	Working Humidity	20%~90%RH, non-condensing
	Storage Temp/Humidity	-40°C~80°C, 10%~95%RH
	Temperature Coefficient	±0.03%/°C (0-50%)
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X/Y/Z axes / 2min
	IP Rating	IP20
Safety & EMC	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13
	Withstand Voltage	I/P-O/P: 3750VAC
	Insulation Resistance	I/P-O/P: 100MΩ / 500VDC / 25°C / 70%RH
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547
	Certifications	CE RoHS  RED

### LED Current Selection

ON ↑	   	   	   	   		
	U <sub>out</sub>	10-42V	10-42V	10-34V	10-27V	
OFF ↓		I <sub>out</sub>	150mA	250mA	350mA	450mA

# System Wiring



## Note:

The above distance is measured in a spacious, obstacle-free environment. Please refer to the actual test distance before installation.

Please check if the WiFi router is using the 2.4G band. The 5G band is not supported, and do not hide your router network.

Please keep the LED driver close to the router and ensure stable WiFi signals.

Users must use the Tuya ZigBee gateway to enable remote control and voice control (the smart panel includes a built-in ZigBee gateway function).

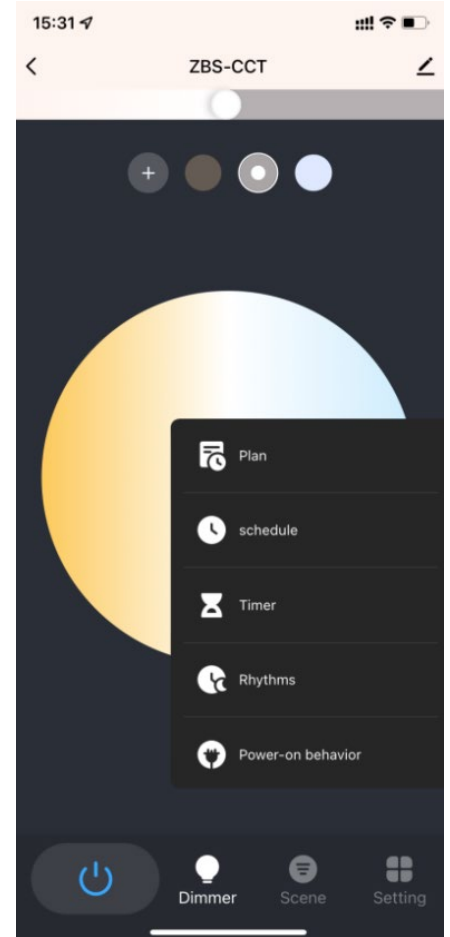
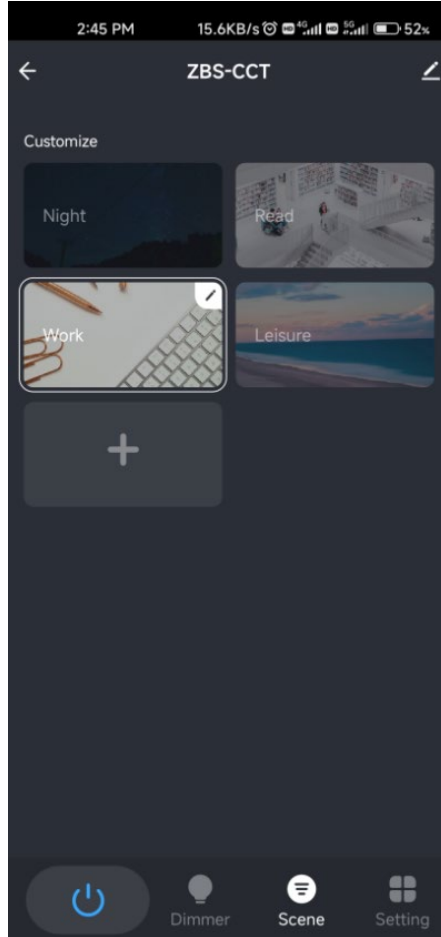
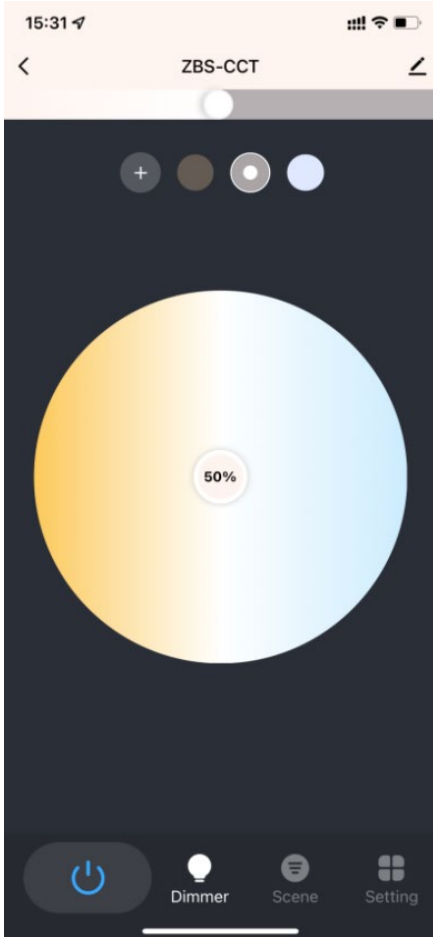
## APP Operating Instructions

### Network Pairing

To begin network pairing, download the Tuya Smart App and register an account, then search for and add the Tuya ZigBee gateway device. Quickly press the RESET button five times, or power the device on and off five times, to clear any previous network connection. The device will enter pairing mode, indicated by the output light breathing or blinking. Once the gateway is ready, search for and add a new device. If the connection is successful, the ZBS-CCT device will appear in the Tuya App.

## App Control Setting

After pairing the light device, you can adjust the brightness and color temperature using the touch brightness slider and color wheel within the app. In the Scene section, four preset scenes are available, and each can be recalled or customized. In the Setting section, you can access additional features such as Plan, Schedule, Timer, Rhythms, and Power-on behavior options.





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