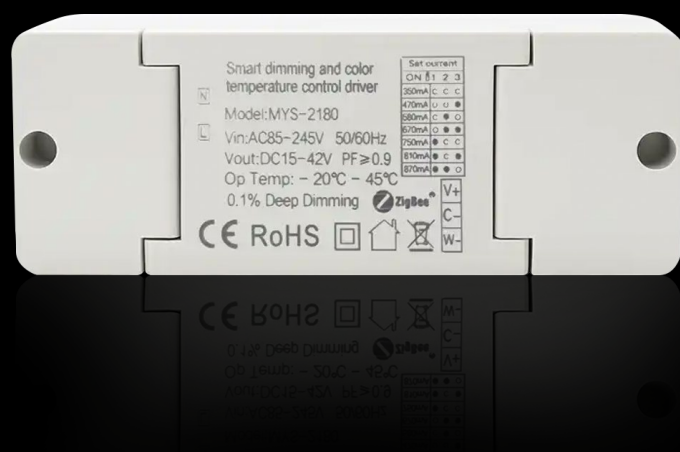




# Teralux PB-20 User Manual

Zigbee Constant Current CCT LED Driver



**CE RoHS emc RED**

## Teralux Office

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# Teralu PB-20

## Zigbee Constant Current CCT LED Driver

The Zigbee LED Driver Dual Color 36W delivers smooth, flicker-free lighting with adjustable color temperature and constant-current output from 350–850mA. Designed for smart homes and professional lighting projects, it supports ZigBee 3.0, Tuya APP, Philips Hue, and popular voice assistants for effortless control.

Built with wide compatibility, auto-recovery protection, and a durable plastic housing, it's ideal for downlights, spotlights, and decorative fixtures across residential, commercial, and hospitality environments. Perfect for creating reliable, modern CCT lighting solutions.

### 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.

Match with Zigbee 3.0 remote or scene panel control optional

Reset key for clearing network connection.

Universal AC input / Full range.

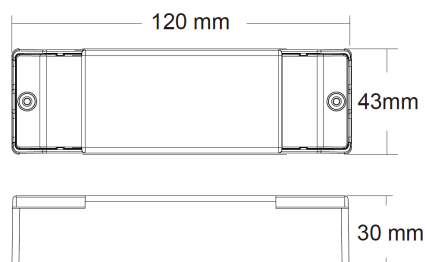
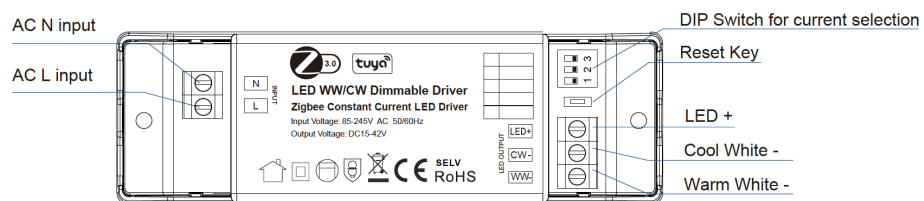
2 Channel constant current output, configure current via DIP switch.

Over-load / Short circuit protection, recover automatically.

Full protective plastic case.

Suitable for indoor LED lighting application.

### 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	48VDC
	Dimming Range	0–100%
	PWM Frequency	4KHz
	Current Accuracy	±5%
Input	Input Voltage Range	100–240VAC
	Frequency Range	50/60Hz
	Efficiency	80%
	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

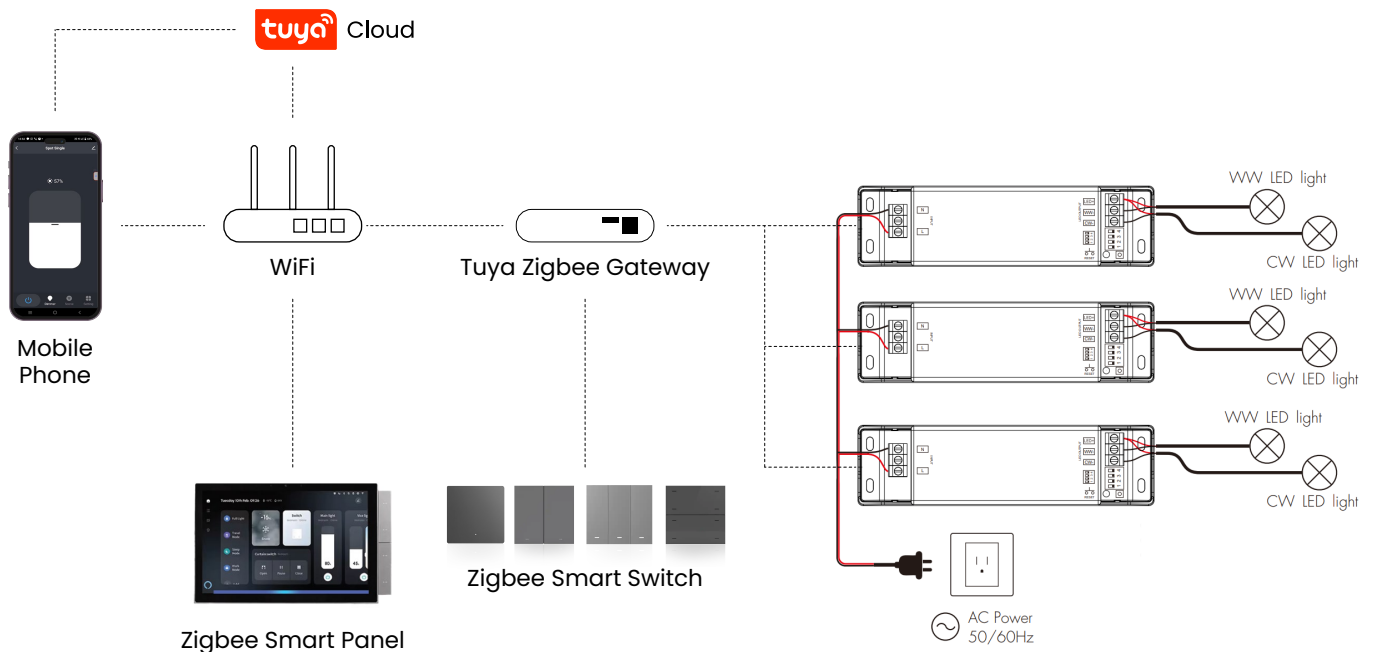
A compact and reliable LED driver designed for stable CCT control, ensuring consistent performance across various lighting applications.

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 ↑									
OFF ↓	1 2 3	lout	350mA	470mA	580mA	670mA	750mA	810mA	870mA

# 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).

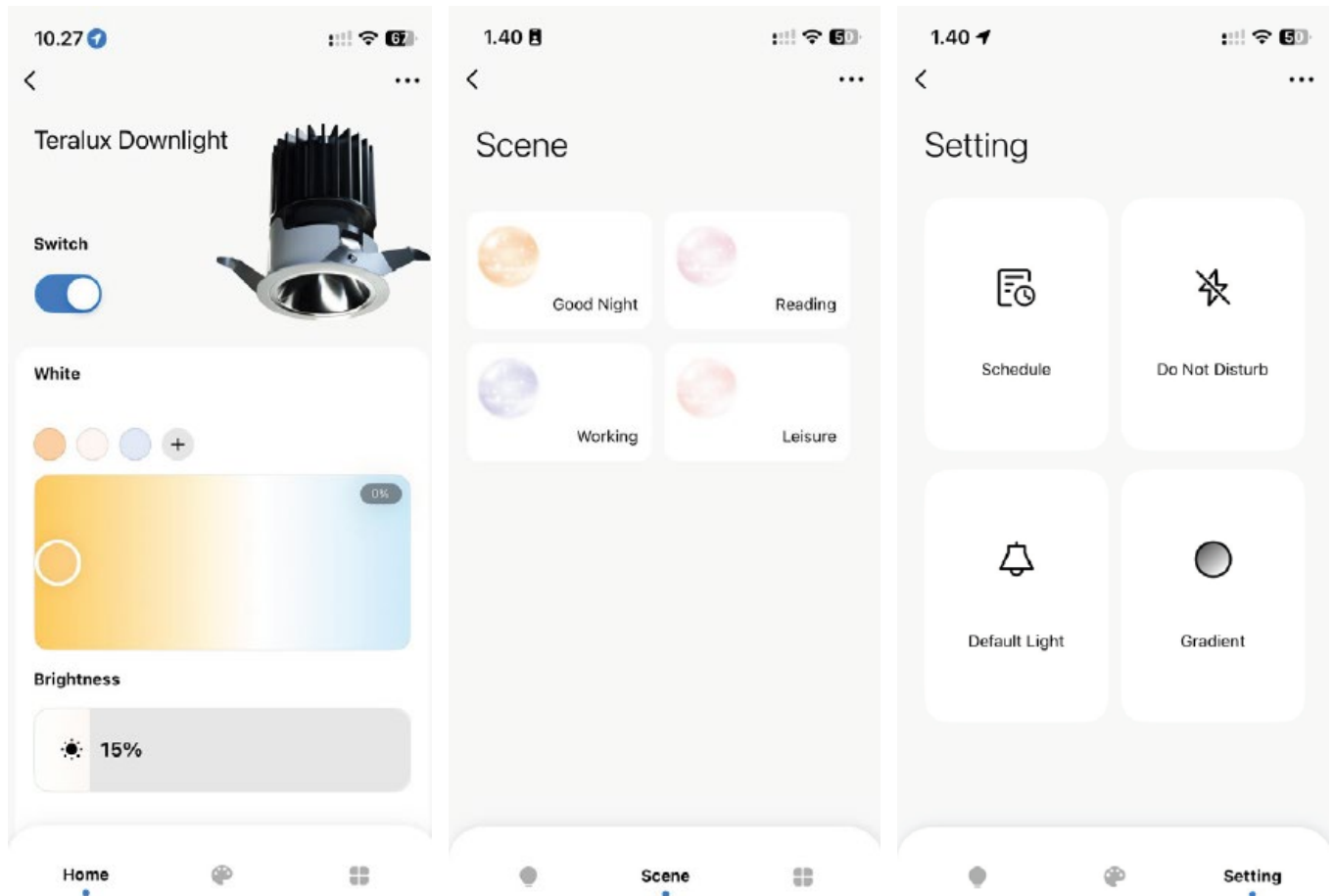
## APP Operating Instructions

### 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.

## Lighting 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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