PBH-60-12, PBH-60-24

Sensor

Constant Voltage LED Driver

- 90-264VAC Input
- Constant voltage output, Max. total output power 60W
- Built-in active PFC function: 0.95 Typ
- Ultra-thin design, light weight and high efficiency
- Over-load / Short circuit protection
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty





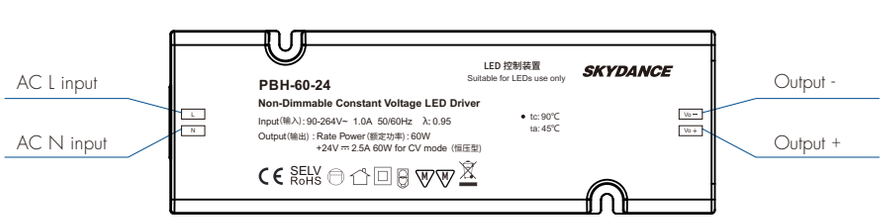
Applications

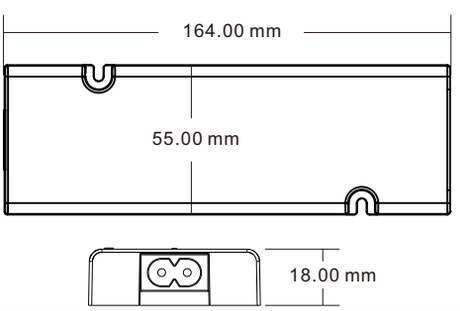
- Suitable for cabinet LED strip.

Technical Parameters

Model		PBH-60-12	PBH-60-24
Output	Output Voltage	12VDC	24VDC
	Output Current	Max. 5.0A	Max. 2.5A
	Output Power	Max. 60W	
	Startup time	1s/230VAC, 1.5s/115VAC	
	Dimming Range	0~100%	
	Ripple & Noise	500mVp-p	
Input	Input Voltage Range	90~264VAC	
	Frequency Range	50/60Hz	
	Efficiency	85%	
	Alternating Current	0.7A/100VAC, 0.3A/230VAC	
	Power Factor	0.98	
	No Load Power	0.3W	
	Inrush Current	Cold start 28A	
	Anti Surge	L-N:1KV	
	Leakage Current	<0.75mA	
Protection	Over Load	Shut down the output Voltage, when the load>=110%~140%, auto recovers.	
	Short Circuit	Shut down the output Voltage, auto recovers	
Environment	Woking Temperature	-20℃~45℃	
	T-case Max	90℃	
	Working Humidity	20%~90%RH, non-condensing	
	Storage Temperature/Humidity	-40℃~80℃, 10%~95%RH	
	Temperature Coefficient	±0.03%/℃ (0-50%)	
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X, Y, Z axes/2min	
	IP Rating	IP42	
Safety & EMC	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.14	
	Withstand Voltage	I/P-O/P: 3750VAC	
	Insulation Resistance	I/P-O/P: 100MΩ / 500VDC / 25℃ / 70%RH	
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547	
	Certications	CE	
Others	Net weight	250g	
	Gross weight	270g	
	Size	164x55x18mm	
NOTE	All parameters NOT specially mentioned are measured at 230VAC input, rate current and 25 ℃ of ambient temperature.		

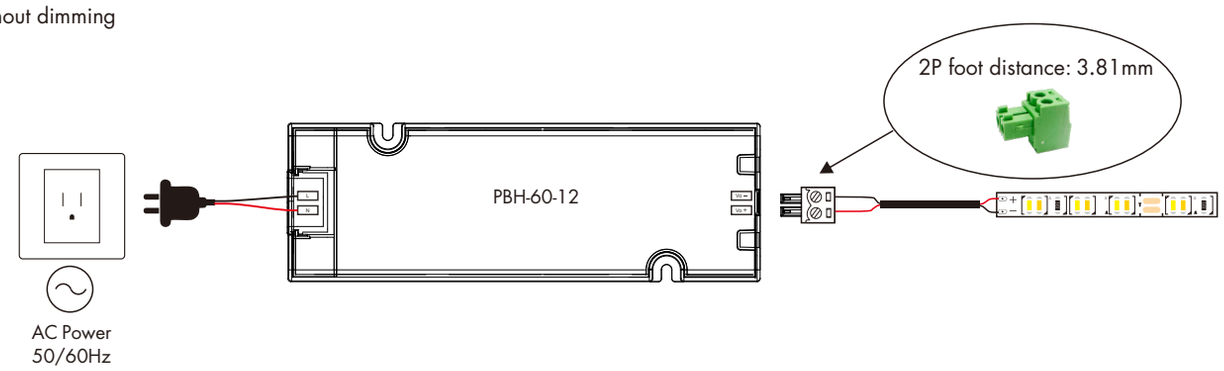
Mechanical Structures and Installations



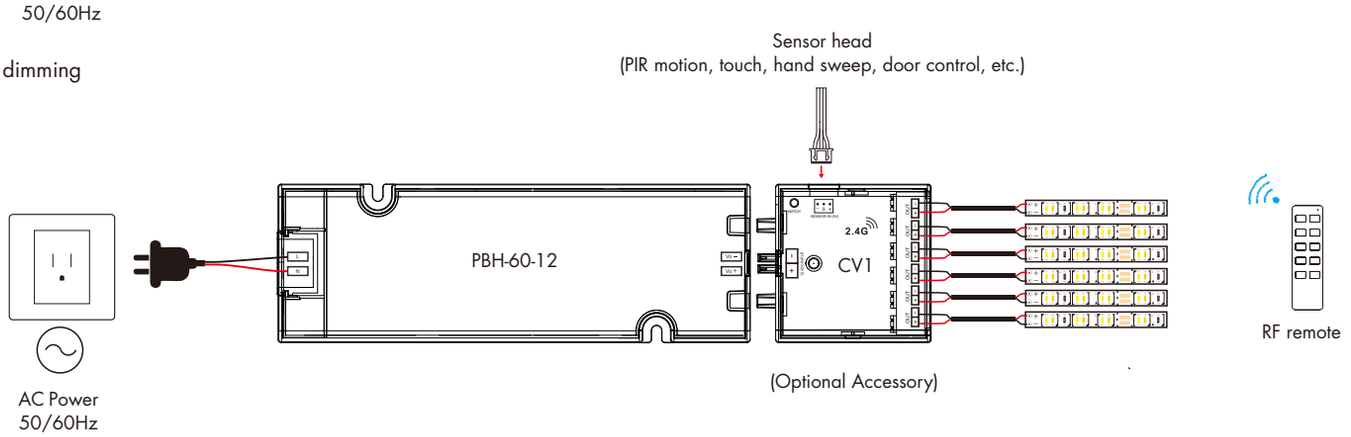


Wiring Diagram

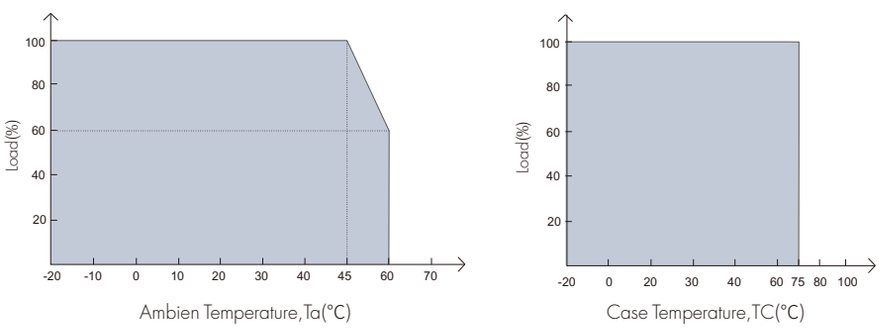
1. Without dimming



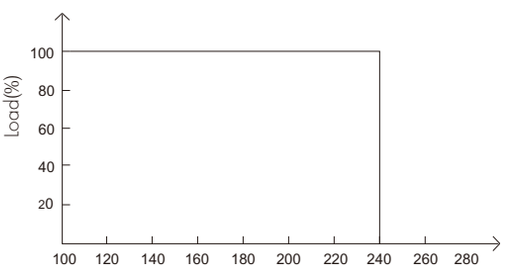
2. With dimming



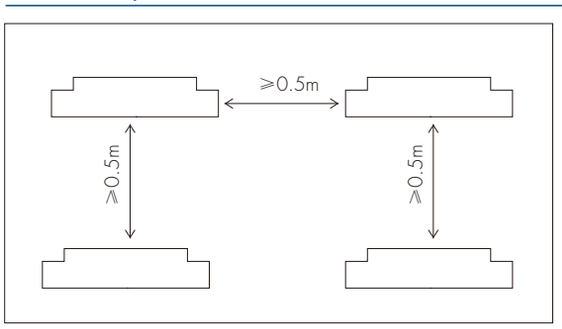
Output Load VS Temperature



Static characteristic



Installation precautions



Please do not stack the products.
The distance between two products should be ≥0.5m,
so as not to affect heat dissipation and lifespan of the products.

Packing List



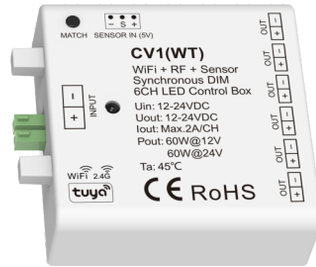
LED Driver 1 pcs	User Manual 1 pcs	2P Terminal 1pcs	Accessories (screw 2 pcs)	Slotted screwdriver 1pcs	Power supply cable (Line length 1.5 meters) 1pcs

CV1(WT)

WiFi + RF + Sensor Synchronous DIM 6 CH LED Control Box

Features

- Dimming interface: WiFi, RF Wireless and sensor
- Tuya smart APP cloud control, support brightness adjust, delay turn on/off light, timer run, scene edit function
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genieand Xiaodu voice assistant
- Match with RF 2.4G single zone or multiple zone dimming remote control
- Match with a variety of sensor head
- 12-24VDC Input
- 6 channel synchronous constant voltage output, Max. total output power 60W
- Output PWM frequency: 8000Hz
- Ultra-thin design, light weight and high efficiency
- Light on/off fade time 3s selectable
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

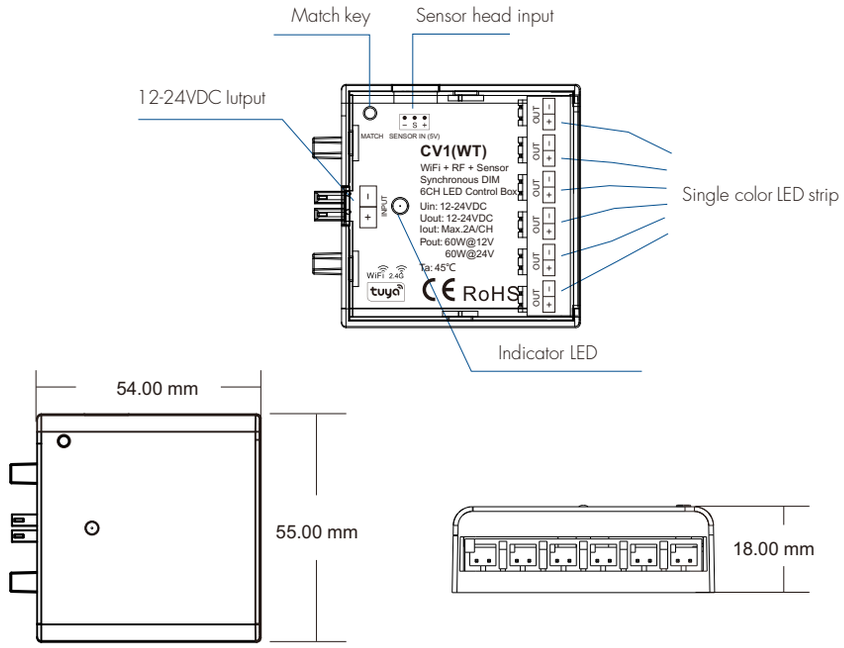


CE RoHS

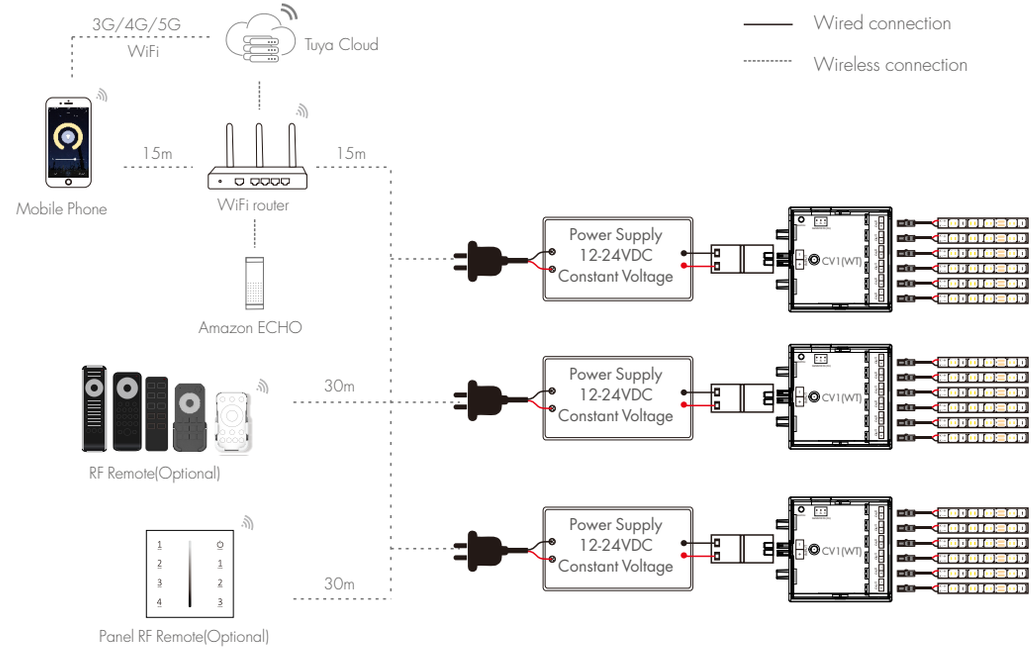
Applications

- Suitable for cabinet LED strip.

Mechanical Structures and Installations



System Wiring

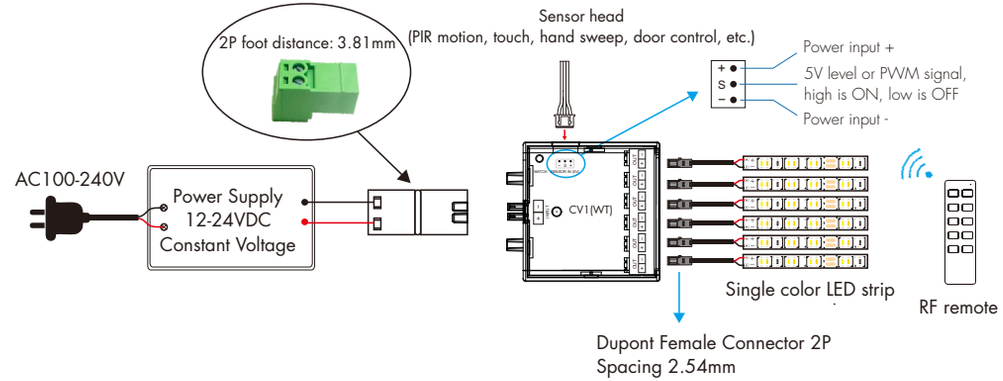


Note:

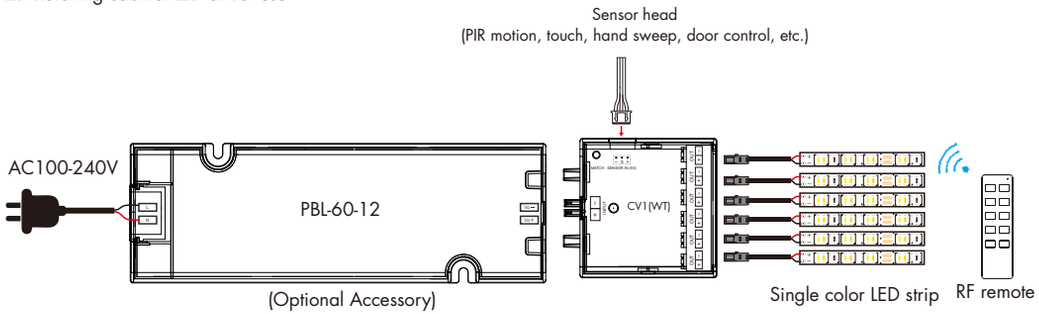
1. The above distance is measured in spacious (no obstacle) environment, Please refer to the actual test distance before installation.
2. Please check if the WiFi router net in 2.4G band, the 5G band is not available, and do not hide your router network.
3. Please keep the distance between LED driver and router close, and check the WiFi signals.

Wiring Diagram

1. Use alone, powered by constant voltage power supply



2. Matching cabinet LED driver use



Note: The sensor head input PWM frequency range is 500-2000Hz.

Match Remote Control

The control box can match with RF 2.4G dimming remote control optionally by default, except PIR motion sensor input.
For PIR motion sensor input, please long press the Match key 20s to disable the RF remote match function.
For other sensor input, please long press the Match key 10s to enable the RF remote match function.
The user can choose the suitable match/delete ways. Two options are offered for selection:

Use Match key

Match:
Short press match key,
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) of the remote.

Delete:
Press and hold match key for 10s to delete all match,
The light blinks 5 times means all matched remotes
were deleted.

Use Power Restart

Match:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

Delete:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

Tuya Smart APP Network Connection and Operation

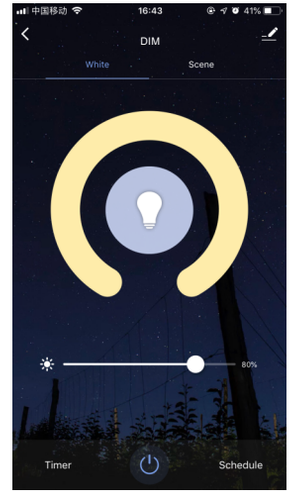
Please download the corresponding tuya/smart life APP according to your region.
Press and hold Match key for 5s, or push twice Match key fastly,
Clear previous network connection, enter WiFi config mode, the blue LED indicator flash fastly.

Repeat power off and on for 5 consecutive times fastly, also clear previous network connection, enter WiFi config mode, the output LED will flash 10 times.

If Tuya smart APP network connection succeed, the blue LED indicator will stop flash, and in Tuya APP, you can find DIM device.

When controlling the light with Tuya Smart/Smart Life APP, if the network connection is poor, you can control the light with Bluetooth connection within the Bluetooth control range.
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.

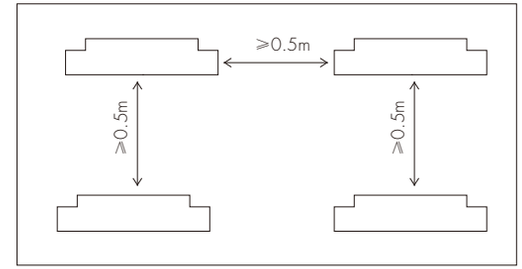
Tuya smart APP interface operation:
Touch brightness slide to adjust brightness.



Light On/Off Fade Time

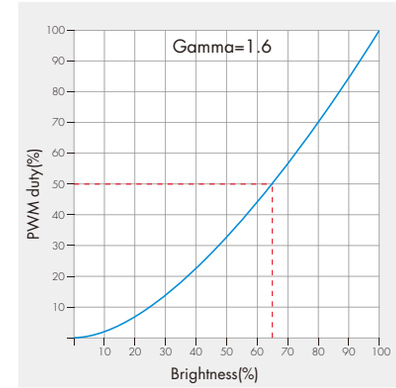
Long press match key 10s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.
Long press match key 15s, restore factory default parameter, the light on/off time also restore to 0.5s.

Installation Precautions



Please do not stack the products.
The distance between two products should be ⩾0.5m,
so as not to affect heat dissipation and lifespan of the products.

Dimming Curve



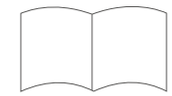
Failure Analysis and Troubleshooting

Fault	Cause	Solution
The light can not be turned on	1. No power 2. Wrong wiring	1. Check the power supply 2. Connection test
Remote control not response	1. Run out of battery 2. Beyond remote control range 3. No matching	1. Replace the battery 2. Move the remote to controller closer 3. Match the remote to LED driver
Hiccup flashing	Overload	Check the power of the light
Controlled by other remote	Wrong match	Delete all match and match with remote again
Multiple LED controllers are out of sync	Inconsistent fade on/off time	Set the same fade on/off time

Packing List



LED Control Box
1 pcs



User Manual
1 pcs



2P Terminal
1 pcs

Slotted
screwdriver
1 pcs