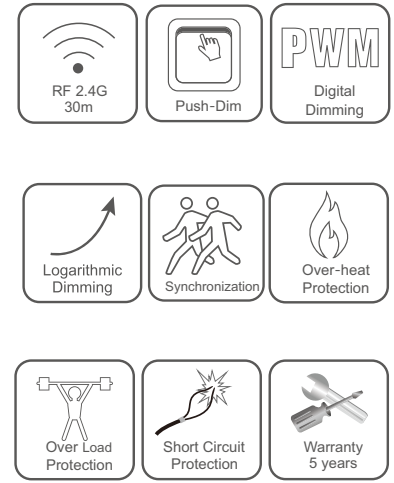


# RF Constant Current LED Driver

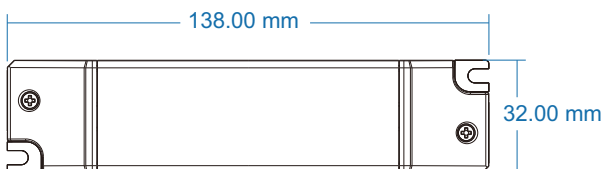
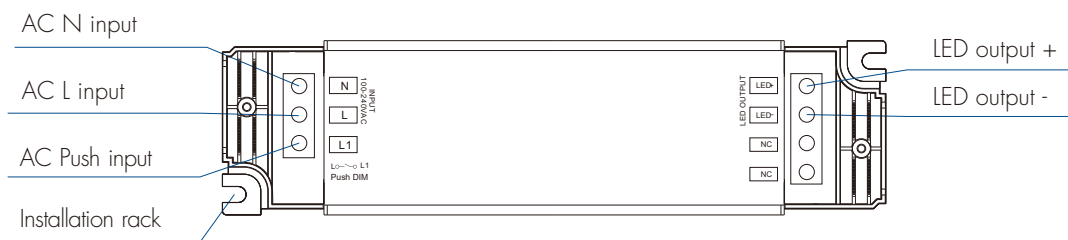
Model No.: PB-12A



## Features

- Dimming interface: RF Wireless, AC Push-Dim.
- Match with Skydance's 2.4G single color remote control, one RF LED driver accept up to 10 remote control.
- Universal AC input / Full range.
- 1 channel constant current output.
- Auto-transmitting function: LED driver automatically transmit signal to another LED driver with 30m control distance.
- Synchronize on multiple number of LED drivers.
- Over-heat / Over load / Short circuit protection, recover automatically.
- Full protective plastic case.
- Suitable for indoor LED lighting application.
- 5 Year, 50,000hr warranty.

## Mechanical Structures and Installations



## Technical Parameters

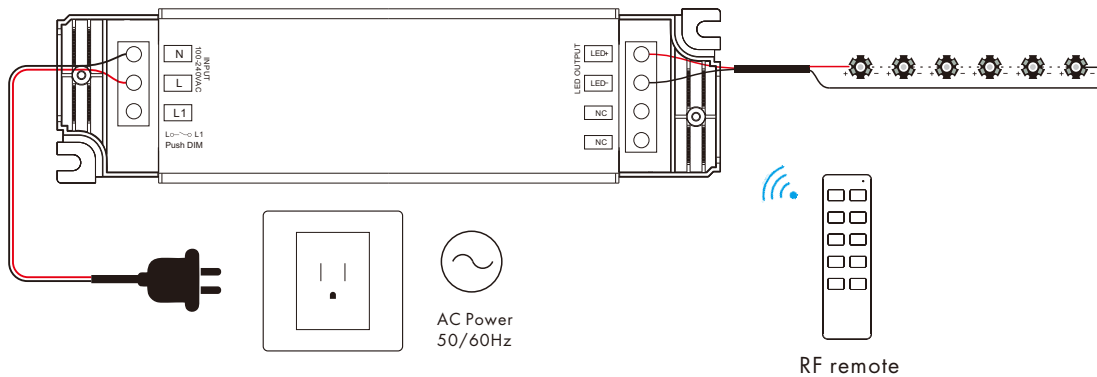
Output	Output Voltage	10-34VDC
	Output Current	350mA
	Output Power	Max. 12W
	Max Output Voltage	37VDC
	Dimming Range	0~100%
	PWM Frequency	500Hz
	Current Accuracy	±5%
	Rise Time	560ms/115VAC, 500ms/230VAC
Input	Input Voltage Range	100VAC~265VAC
	Frequency Range	50/60Hz
	Efficiency	>80%/220VAC
	Alternating Current	0.21A/115VAC, 0.13A/230VAC
	THD	>15%/230VAC
	Inrush Current	Cold start 5A at 230VAC
	Leakage Current	< 0.5mA/230VAC
	No Load Power	< 1W
Protection	Over Load Power	When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.
	Short Circuit	Shut down automatically if short circuit occurs, auto recovers.
	Over Temperature	Intelligently adjust or turn off the output current if the PCB temp > 100°C, auto recovers.
Environment	Working Temperature	-30°C~50°C
	Tcase Max	70°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	EN55015, EN61000-3-2 Class C, IEC61000-3-3
	EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547
	Certifications	CE, EMC

## Applications

- Suitable for downlight, spotlight and decorative applications.
- Office / Commercial / Domestic Lighting, Hotels, Classrooms, Warehouse, Health care, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

## Wiring Diagram

### 1. RF Connection



### Match remote control (Use Power-up)

**Match:**

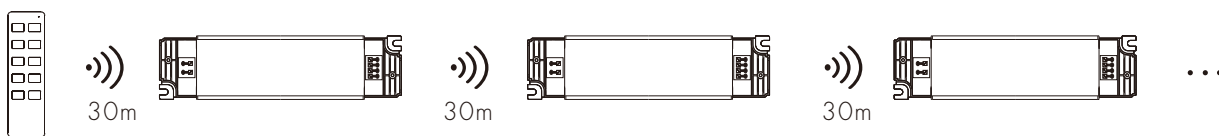
Switch off the power, then switch on power again, immediately short press on/off key(single zone remote) or zone key(multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

**Delete:**

Switch off the power, then switch on power 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 delete all matched remote.

### When use multiple RF drivers, two application method:

1. All the drivers in the same zone.



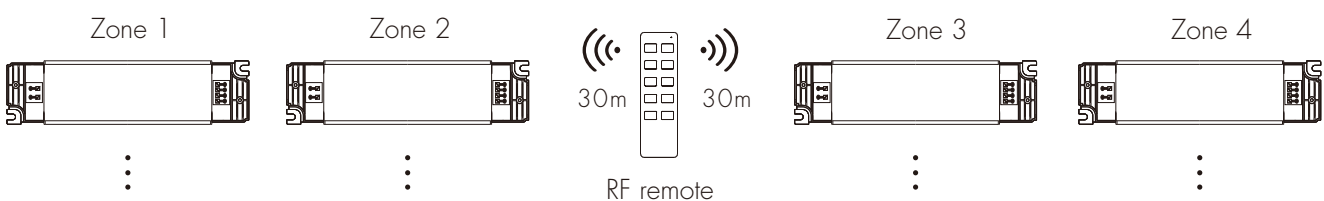
RF remote

**Auto-transmitting:** One driver can transmit the signals from the remote to another driver within 30m, as long as there is a driver within 30m, the remote control distance can be limitless.

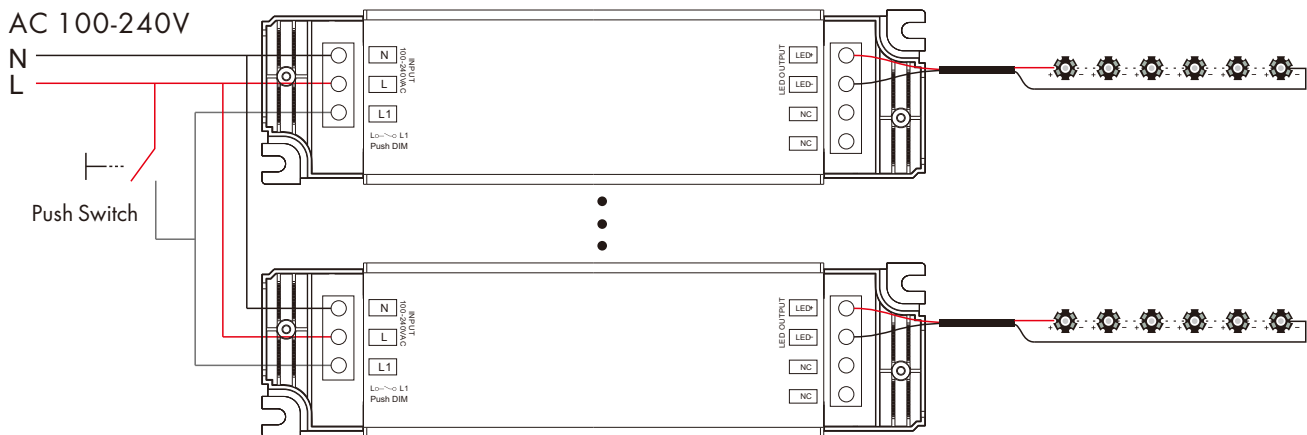
**Auto-synchronization:** Multiple drivers within 30m distance can work synchronously when they are controlled by the same remote.

Driver placement may offer up to 30m communication distance. However, we recommend for indoor applications that driver placements should be no further apart than 15m.

2. Each driver(one or more) in a different zone, like zone 1, 2, 3 or 4.



## 2. AC Push-Dim connection



The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

- **Short press:**  
Turn on or off light.
- **Long press (1-6s):**  
Press and hold to step-less dimming,  
With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**  
Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**  
If more than one LED driver are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.  
This means there is no need for any additional synchrony wire in larger installations.  
We recommend the number of LED drivers connected to a push switch does not exceed 25 pieces,  
The maximum length of the wires from push to LED driver should be no more than 20 meters.

## Dimming Curve

