# RF 4 Channel Constant Voltage LED Driver

## Model No.: PB-75-12-4, PB-75-24-4

#### **Features**

- Dimmable LED driver with RF control, apply to single color, dual color or RGB/RGBW LED constant voltage strips
- Match with RF 2.4G single color, dual color and RGB/RGBW remote.
  One RF LED driver accepts up to 10 remote controls
- 4 channel constant voltage output, Max. total output power 75W
- When using with RGB/RGBW light, built in 10 dynamic mode, include jump or gradual change style
- Auto-transmitting function: LED driver automatically transmit signal to another LED driver with 30m control distance
- Synchronize on multiple number of LED drivers
- Connect with external push switch to achieve on/off and 0-100% dimming
- Light on/off fade time 3s selectable
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 3 Year, 30,000hr warranty

















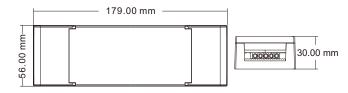


## **Applications**

- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

## Mechanical Structures and Installations

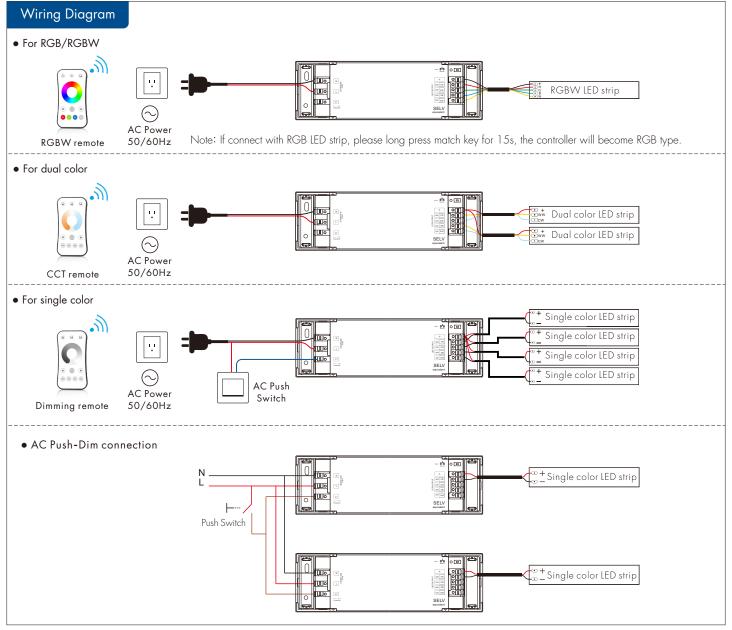




## **Technical Parameters**

	Model	PB-75-12-4	PB-75-24-4	
	Output Voltage	12VDC	24VDC	
	Output Current	4CH x 1.56A	4CH x 0.78A	
	Output Power	Max. 75W		
Output	Dimming Range	0~100%		
	Ripple & Noise	<=200mV/230VAC		
	PWM Frequency	2000Hz		
	Input Voltage Range	200~240VAC		
Input	Frequency Range	50/60Hz		
	Efficiency	88%/230VAC		
	Alternating Current	0.77A/230VAC	0.75A/230VAC	
	Inrush Current	Cold start 27.5A at 230VAC		
	Leakage Current	<5mA		
	Standby Power	1.5W/230VAC		
Protection	Over Load Power	Shut down output voltage, when the load≥120~150%,auto recovers.		
	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 $> 100^\circ\!\mathrm{C}$ , auto recovers.		
	Woking Temperature	-20℃~50℃		
Environment	T-case Max	90°C		
	Working Humidity	20%~90%RH, non-condensing		
	Storage Temperature/Humidity	-40℃~80℃, 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/PO/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		
	Certications	CE		

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Note: Long press match key 5s, 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 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

## Match Remote Control (two match ways)

End 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 5s 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.

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

1. All the drivers in the same zone.

**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 extended.

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. Metals and other metal materials will reduce the range.

Strong signal sources such as WiFi routers and microwave ovens will affect the range.

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.

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## Push-Dim function

• 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.

• 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.

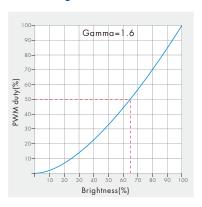
We recommend the number of LED drivers connected to a push switch does not exceed 25 pieces,

The maximum length of the wires from push to LED driver should be no more than 20 meters.

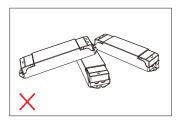
## RGB/RGBW Dynamic mode list

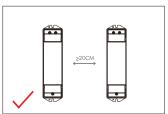
No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

## Dimming Curve

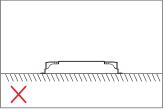


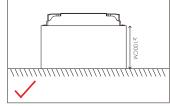
## Installation Precautions



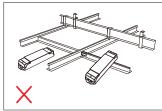


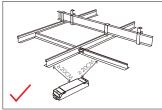
1. The products shall not be stacked, the distance should be  $\geq$  20cm, so as not to affect lifespan of the products due to poor heat dissipation.



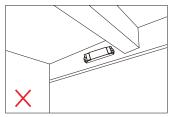


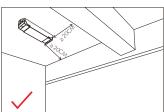
2. The installation height shall be  $\geq 1\,\mathrm{m}$  from the floor to avoid shortening the remote control distance due to too weak reception signal.





3. The products are not allowed to be close to or covered by metal objects, with an interval of  $\geq 20$ cm to avoid signal attenuation and shorten the remote control distance.





4. Avoid installation at the corner of the wall or the corner of the beam, with an interval of  $\geq$  20cm to avoid signal interference.

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