

RF 3 Channel Constant Voltage LED Driver

Model No.: PB-40-12-3 / PB-40-24-3

Features

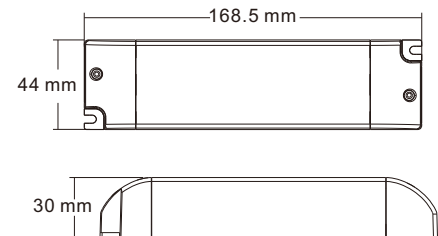
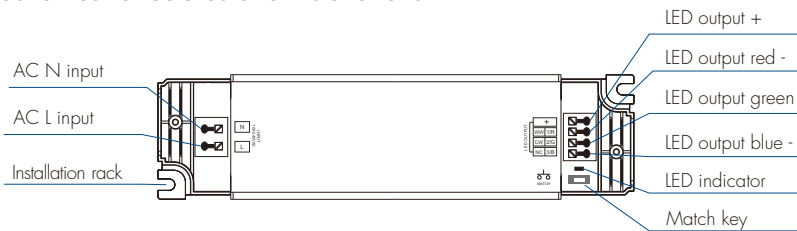
- Dimmable LED driver with RF control, apply to single color, dual color or RGB LED constant voltage strips
- Match with RF 2.4G single color, dual color and RGB/RGBW remote. One RF LED driver accepts up to 10 remote controls
- Universal AC input / Full range
- 3 channel constant voltage output, Max. total output power 40W
- When using with RGB 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
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr 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

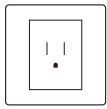
Model		PB-40-12-3	PB-40-24-3
Output	Output Voltage	12VDC	24VDC
	Output Current	3CH x 1.11A	3CH x 0.56A
	Output Power	Max. 40W	
	Dimming Range	0~100%	
	Ripple & Noise	<=200mV/230VAC	<=280mV/230VAC
	PWM Frequency	2000Hz	
Input	Input Voltage Range	100~240VAC	
	Frequency Range	50/60Hz	
	Efficiency	81%/230VAC	86%/230VAC
	Alternating Current	0.70A/100VAC, 0.40A/230VAC	
	Inrush Current	Cold start 27.5A at 230VAC	
	Leakage Current	<5mA	
	Standby Power	0.8W/115VAC, 1.2W/230VAC	1.6W/115VAC, 2.1W/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°C, auto recovers.	
Environment	Working Temperature	-20°C~50°C	
	Tcase Max	80°C	
	Working Humidity	20%~90%RH, non-condensing	
	Storage Temperature/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/PO/P: 3750VAC	
	Insulation Resistance	I/PO/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	

Wiring Diagram

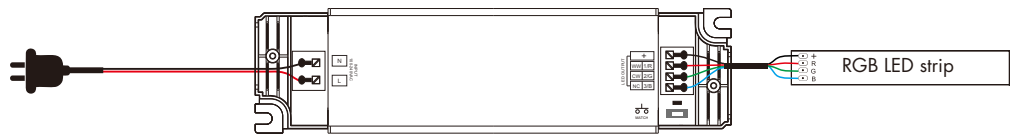
• For RGB



RGB remote



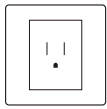
AC Power
50/60Hz



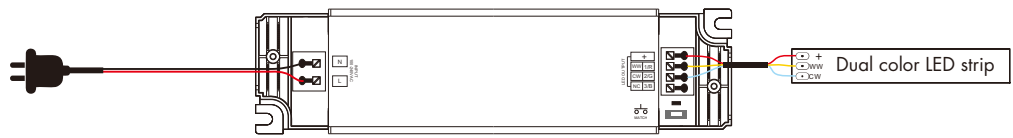
• For dual color



CCT remote



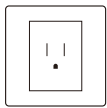
AC Power
50/60Hz



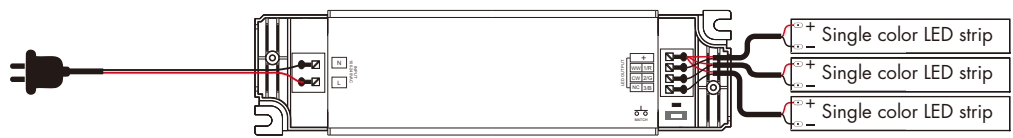
• For single color



Dimming remote



AC Power
50/60Hz



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.

RGB 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

Installation Precautions

1. The products shall not be stacked, the distance should be $\geq 20\text{cm}$, so as not to affect lifespan of the products due to poor heat dissipation.
2. The installation height shall be $\geq 1\text{m}$ 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 $\geq 20\text{cm}$ 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 $\geq 20\text{cm}$ to avoid signal interference.