RF 3 Channel Constant Voltage LED Driver

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

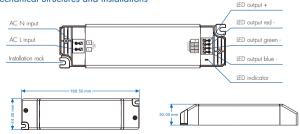




Features

- Dimmable LED driver with RF control, apply to single color, dual color or RGB LED constant voltage strips
- Match with Skydance's 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

Mechanical Structures and Installations

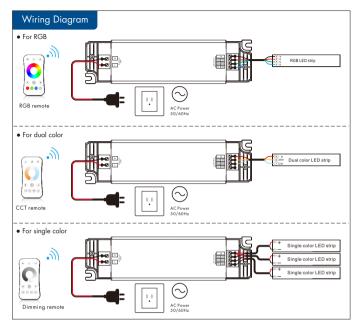


Technical Parameters

	Model	PB-40-12-3	PB-40-24-3		
	Output Voltage	12VDC	24VDC		
	Output Current	3CH x 1.11A	3CH x 0.56A		
	Output Power	Max. 40W			
Output	Dimming Range	0~100%			
	Ripple & Noise	<=200mV/230VAC	<=280mV/230VAC		
	PWM Frequency	750Hz			
	Rise Time	488ms/115VAC, 424ms/230VAC	424ms/115VAC, 368ms/230VAC		
	Hold Time	3.6ms/115VAC, 4.5ms/230VAC	6.5ms/115VAC, 8.2ms/230VAC		
	Input Voltage Range	100VAC~240VAC			
-	Frequency Range	50/60Hz			
	Efficiency	81%/230VAC	86%/230VAC		
Input	Alternating Current	0.70A/115VAC, 0.41A/230VAC	0.67A/115VAC, 0.40A/230VAC		
	Inrush Current	Cold start 27.5A at 230VAC			
	Leakage Current	<5mA			
-	No Load Power	0.8W/115VAC, 1.2W/230VAC	1.6W/115VAC, 2.1W/230VAC		
	Over Load Power	Shut down the output when current load >= 120%~150%, auto recovers.			
Protection	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.			
	Woking Temperature	-30°C~50°C			
	T-case Max	70°C			
	Working Humidity	20%~90%RH, non-condensing			
Environment	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/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			
	Certications	CE, EMC			

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.



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.

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	

Application notes

1. All the receivers in the same zone.



RF remote

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

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote, under same dynamic mode and with same speed.

Receiver 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 receiver placements should be no further apart than 15m.

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



Dual color control

CH1=Warm white LED

CH2=Cool white LED

Each channel can supply up to 40W and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=40W	CH1=20W,CH2=20W	CH1=40W,CH2=0W

Dimming curve for CCT

Linear dual color tuning

Dimming curve for RGB/DIM

