



Superlightingled PB-12-12 RF Constant Voltage LED Driver Instruction Manual

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Superlightingled

Superlightingled PB-12-12 RF Constant Voltage LED Driver

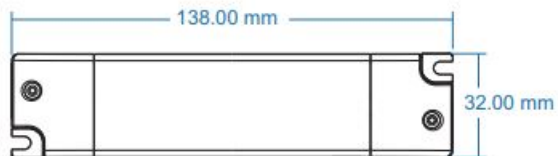
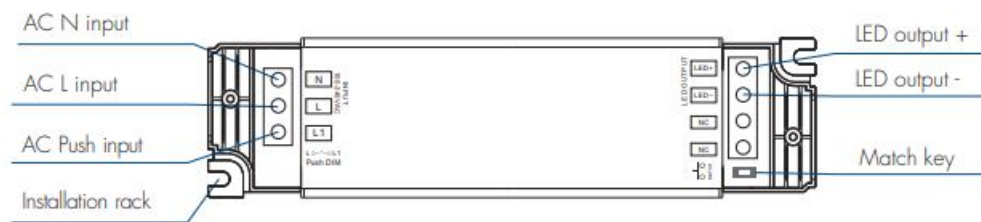


Features

- Dimming interface: RF Wireless, AC Push-Dim
- Match with RF 2.4G single color remote control, one RF LED driver accepts up to 10 remote controls
- Universal AC input / Full range
- 1 channel constant voltage output, Max. total output power 12W
- Auto-transmitting function: LED driver automatically transmit signal to another LED driver with 30m control distance
- Synchronize on multiple number of LED drivers
- 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
- 5 Year, 50,000hr warranty



Mechanical Structures and Installations



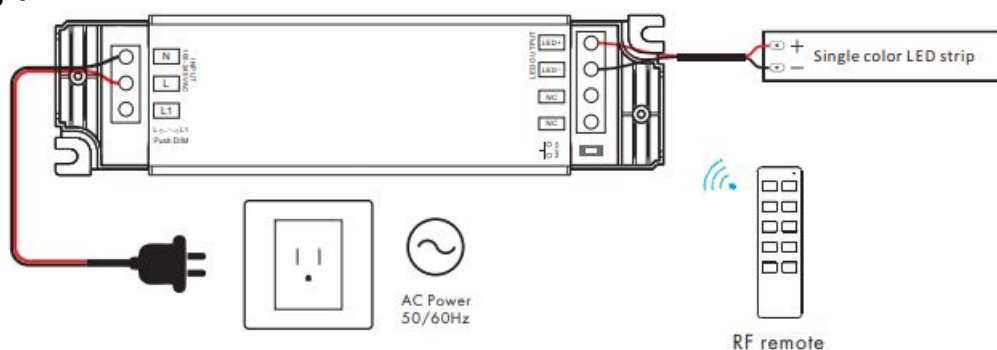
Technical Parameters

Output	Output Voltage	12VDC
	Output Current	Max. 1A
	Output Power	Max. 12W
	Dimming Range	0~100%
	Ripple & Noise	≤200mV
	PWM Frequency	2000Hz
Input	Input Voltage Range	100~240VAC
	Frequency Range	50/60Hz
	Efficiency	81%/230VAC
	Alternating Current	0.26A/115VAC, 0.13A/230VAC
	Inrush Current	5A/230VAC
	Leakage Current	<0.5mA/230VAC
	No Load Power	0.8W/115VAC, 1.2W/230VAC
Protection	Over Load Power	Shut down the output when current 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	-30°C~50°C
	T-case Max	70°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/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 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.

Wiring Diagram



RF Connection

Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use Match key

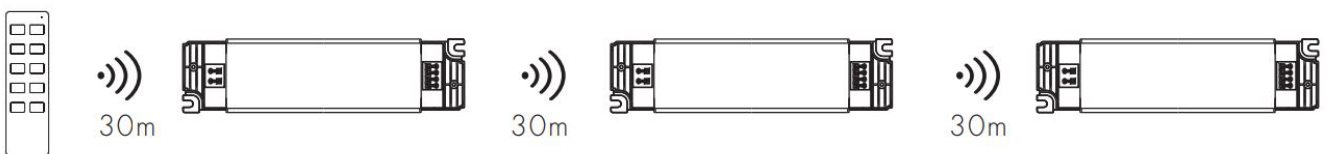
- **Match:**
 - Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.
- **Delete:**
 - Press and hold match key for 5s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

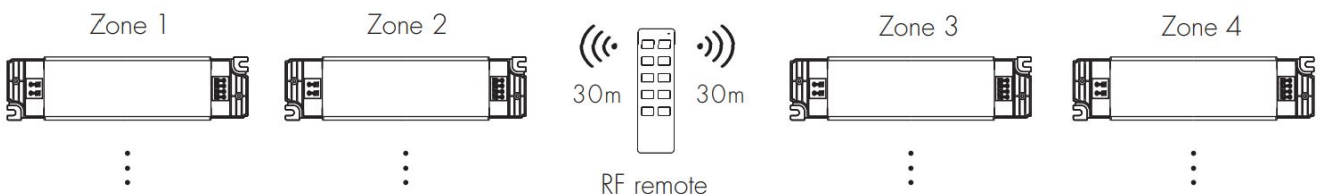
- **Match:**
 - Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.
- **Delete:**
 - Switch off the power, then switch on power repeat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

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



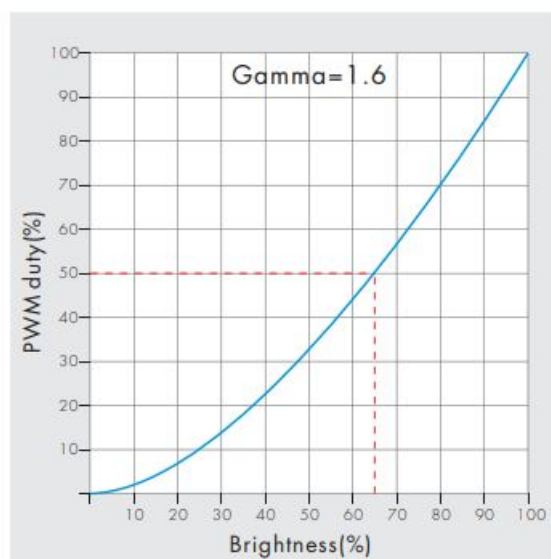
AC Push-Dim connection



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



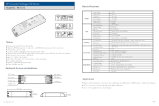
Light on/off fade time

- 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

Documents / Resources

	Superlightingled PB-12-12 RF Constant Voltage LED Driver [pdf] Instruction Manual PB-12-12, RF Constant Voltage LED Driver, PB-12-12 RF Constant Voltage LED Driver, Constant Voltage LED Driver, Voltage LED Driver, LED Driver, Driver
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