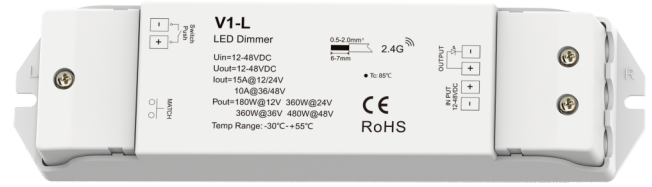# SKYDANCE
MADE FOR PROFESSIONALS

V1-L

RF DIM

Single Color LED Controller

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with RF 2.4G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.
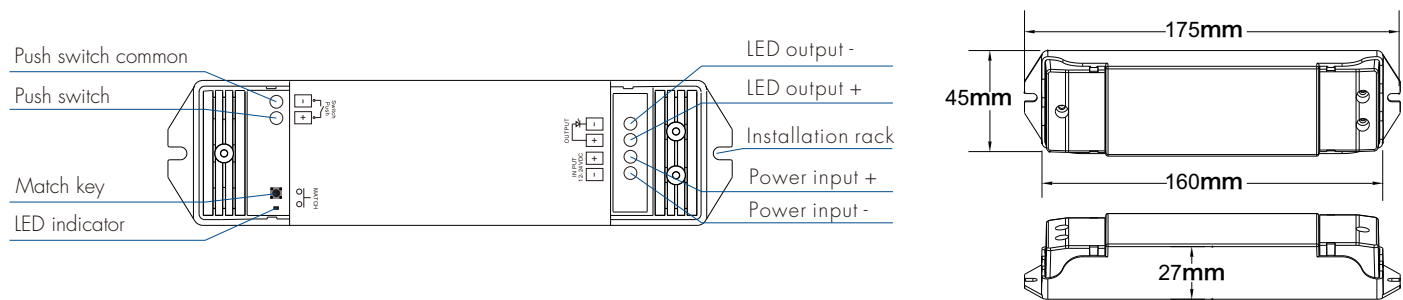
CE **RoHS** emc LVD RED   1 Channel / Step-less dimming / Wireless remote control / Push Dim / Multiple protection

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	RF 2.4GHz + Push Dim	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3
Output voltage	12-48VDC	Control distance	30m(Barrier-free space)		ETSI EN 301 489-17 V3.2.4
Output current	15A@12/24V 10A@36/48V	Dimming gray scale	4096 (2^12) levels	Safety standard(LVD)	EN 62368-1:2020+A11:2020
		Dimming range	0 -100%	Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Output power	180W@12V 360W@24V 360W@36V 480W@48V	Dimming curve	Logarithmic	Certification	CE,EMC,LVD,RED
		PWM frequency	500Hz (default)		
Output type	Constant voltage	Environment		Package	
Warranty		Operation temperature	Ta: -30℃ ~ +55℃	Size	L178x W50 x H38mm
Warranty	5 years	Case temperature (Max.)	Tc: +85℃	Gross weight	0.116kg
		IP rating	IP20		

Mechanical Structures and Installations

Push switch common
Push switch
Match key
LED indicator

LED output -
LED output +
Installation rack
Power input +
Power input -

175mm
45mm
160mm
27mm

Match Remote Control (two match ways)

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

Use the controller's Match key

Match:
Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.
The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match,
The LED indicator fast flash a few times means all matched remotes were deleted.
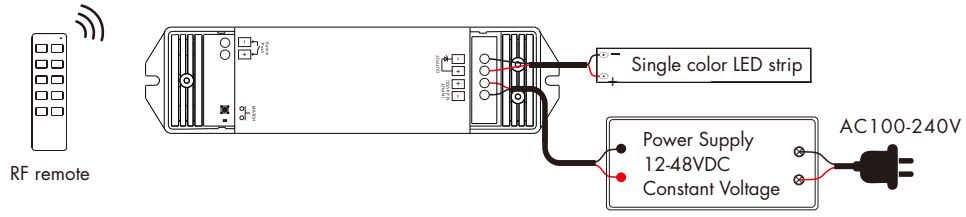
Use Power Restart

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.
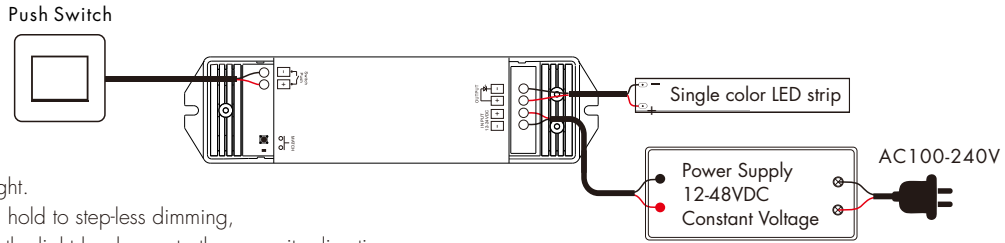The light blinks 3 times means match is successful.

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.

Wiring Diagram

● Match with dimming remote

RF remote

Single color LED strip

Power Supply
12-48VDC
Constant Voltage

AC100-240V

● Connect with push switch

Push Switch

Single color LED strip
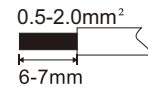
Power Supply
12-48VDC
Constant Voltage

AC100-240V

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.

Wire Preparation:

1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 2 mm².
   Conventional 1mm² can withstand 10A output current.
2. When wiring is installed, the terminals must be tightened.
   If they are not tightened, the contact point resistance will be too high and the terminals will
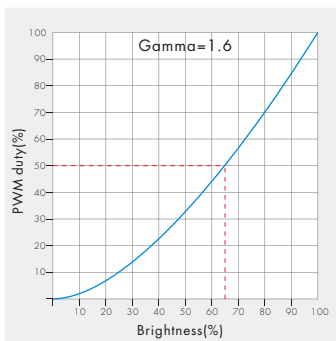   easily burn due to heat when used at full load for a long time.

0.5-2.0mm²

6-7mm

Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip),
otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

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.

Dimming curve

Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.

Installation Precautions

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

2. The product shall not be installed close to the switching power supply with an interval of ≥ 20cm to avoid radiation interference of the switching power supply.

3. The installation height shall be ≥ 1m from the floor to avoid shortening the remote control distance due to too weak reception signal.

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

5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of ≥ 20cm to avoid signal interference.