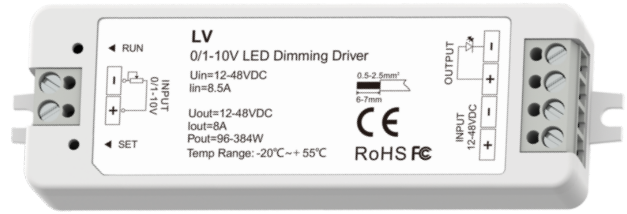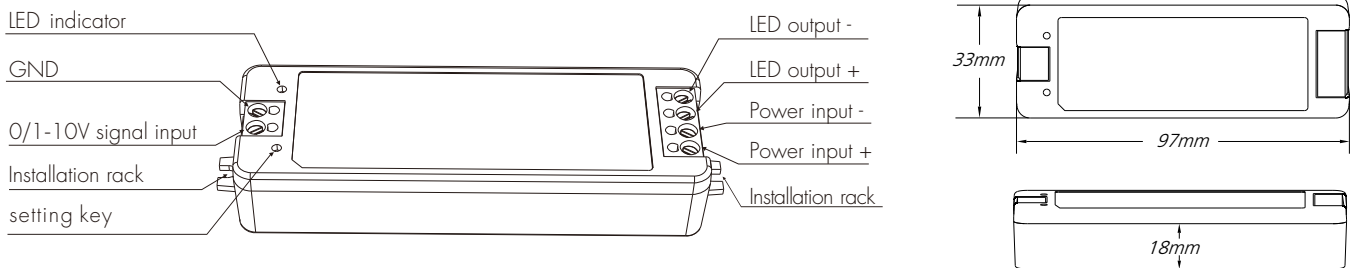# LV

0/1-10V

0/1-10V LED Dimming Driver

- 1 channel 0/1-10V input,

  1 channel PWM constant voltage output.

- 0~100% dimming range via logarithmic characteristic

  can be very comfortable for human eyes.

- Compatible with active or passive 0-10V, 1-10V dimmer,

  can solve the fluorescent lamp dimming system compatible with LED lighting.

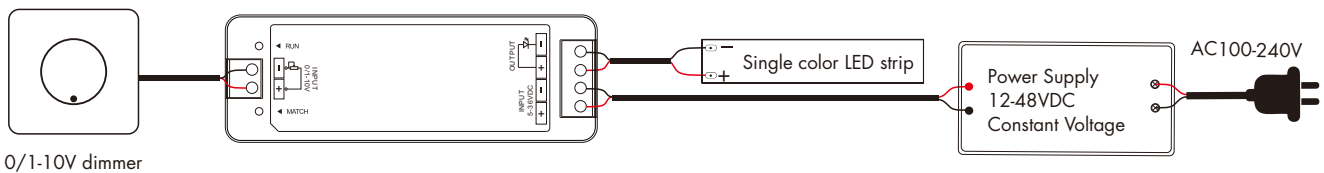- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.

LV
0/1-10V LED Dimming Driver
Uin=12-48VDC
Iin=8.5A
Uout=12-48VDC
Iout=8A
Pout=96-384W
Temp Range: -20℃~+ 55℃
RoHS FC

FC CE **RoHS** emc LVD

Technical Parameters

Input and Output	
Input voltage	12-48VDC
Input current	8.5A
Output voltage	12-48VDC
Output current	1CH,8A
Output power	96W/192W/288W/384W (12V/24V/36V/48V)
Output type	Constant voltage

Dimming data	
Input signal	0/1-10V
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM Frequency	500Hz/2KHz/8KHz/16KHz

Environment	
Operation temperature	Ta: -20℃ ~ +55℃
Case temperature (Max.)	Tc: +85℃

Safety and EMC	
EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019
Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE,EMC,LVD

Package & Warranty	
Size	L114xW38xH26mm
Gross weight	0.053kg
Warranty	5 years

Mechanical Structures and Installations

LED indicator
GND
0/1-10V signal input
Installation rack
setting key

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

33mm
97mm
18mm

Wiring Diagram

0/1-10V dimmer

Single color LED strip

Power Supply
12-48VDC
Constant Voltage

AC100-240V

Notes:

- The 0/1-10V input is operable via commercially available simple rotary wall switchs designed for 0/1-10V dimming equipment or from dedicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PWM, RX(4 in 1).
- We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 50 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.

PWM frequency setting

Long press SET key for 2s, set PWM frequency to 500Hz, LED indicator flashes once.
Long press SET key for 5s, set PWM frequency to 2KHz, LED indicator flashes twice.
Long press SET key for 10s, set PWM frequency to 8KHz, LED indicator flashes 3 times.
Long press SET key for 15s, set PWM frequency to 16KHz, LED indicator flashes 4 times.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

Dimming Curve