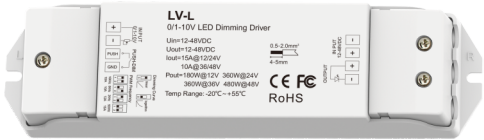


0/1-10V LED Dimming Driver

Features

- 1 channel 0/1-10V LED dimming driver with push-dim function.
- 1 channel 0/1-10V input, 1 channel PWM constant voltage output.
- Logarithmic or linear dimming curve selectable.
- PWM frequency 500Hz, 2kHz, 8kHz or 16kHz selectable.
- 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
- Over-heat / Over-load / Short circuit protection, recover automatically.

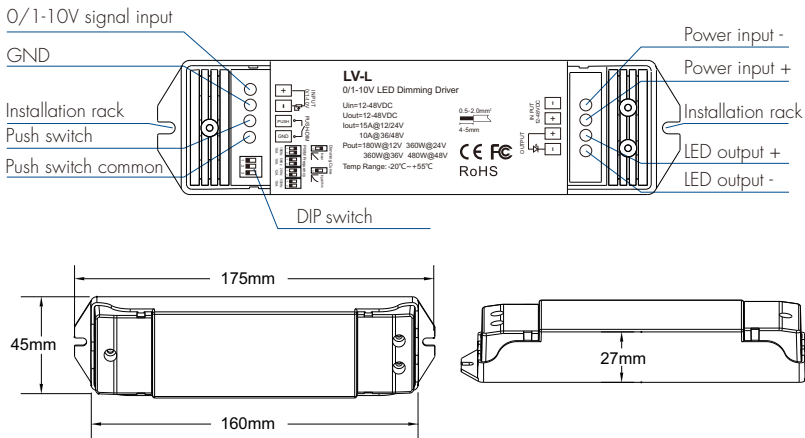


FC CE RoHS

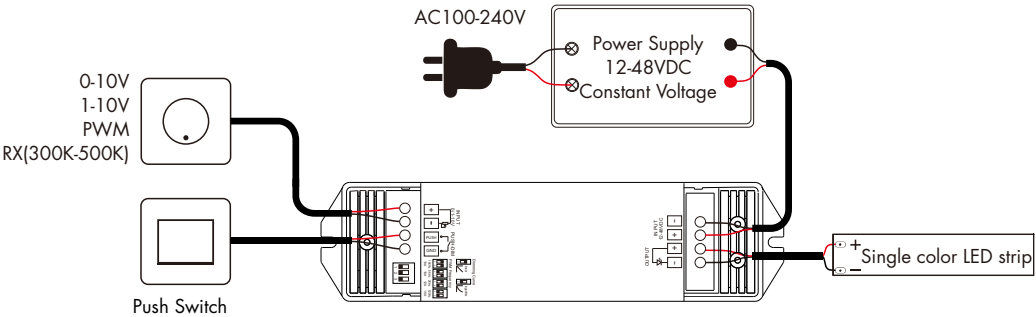
Technical Parameters

| Input and Output | | Dimming data | | Safety and EMC | |
|------------------|------------------|-------------------------|--------------------------|-----------------|------------------------------|
| Input voltage | 12-48VDC | Input signal | 0/1-10V + Push Dim | EMC standard | EN IEC 55015 EN IEC 61547 |
| Output voltage | 12-48VDC | Dimming gray scale | 4096 (2^12) levels | | |
| Output current | 15A@12/24V | Dimming range | 0-100% | Safety standard | EN 61347-1/-2 EN 62493 |
| | 10A@36/48V | Dimming curve | Logarithmic or linear | | |
| | | PWM Frequency | 500Hz, 2kHz, 8kHz, 16kHz | Certification | CE RoHS FCC |
| Output power | 180W@12V | Environment | | | |
| | 360W@24V | | | | |
| | 360W@36V | | | | |
| | 480W@48V | | | | |
| Output type | Constant voltage | Operation temperature | Ta: -20°C ~ +55°C | Package | |
| Warranty | | Case temperature (Max.) | Tc: +85°C | | |
| Warranty | 5 years | IP rating | IP20 | | |
| | | | | Size | L178 x W50 x H38mm |
| | | | | Gross weight | 0.124kg |

Mechanical Structures and Installations



Wiring Diagram



Note:

- The 0/1-10V input is operable via commercially available simple rotary wall switches designed for 0/1-10V dimming equipment or from decicated 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.
- If the LED driver be used with Push-Dim interface prior to using the 0/1-10V interface, the 0/1-10V signal should change over 10% to return 0/1-10V control.

Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

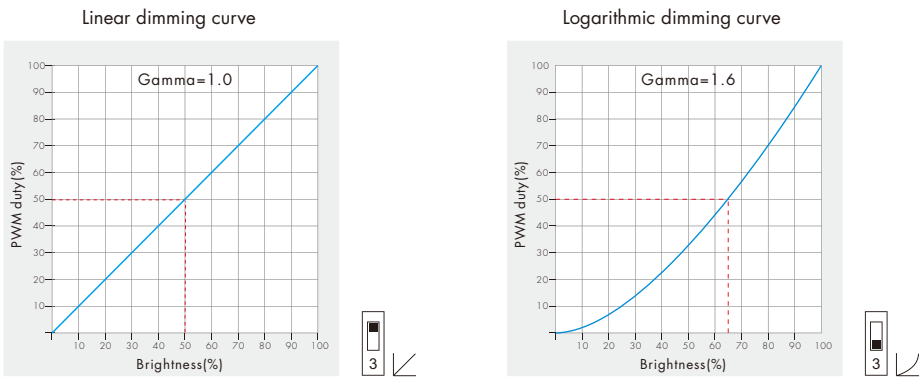
- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to step-less dimming,
With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**
Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**
If more than one controller 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 controllers connected to a push switch does not exceed 50 pieces,
The maximum length of the wires from push to controller should be no more than 50 meters.

PWM Frequency Setting

| | | | |
|-------|------|------|--------------|
| | | | |
| 16KHz | 8KHz | 2KHz | 500Hz |
| 10A | 10A | 12A | 15A (12-24V) |
| 6A | 8A | 10A | 10A (36-48V) |

We can select four PWM frequency: 500Hz, 2KHz, 8KHz, 16KHz.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

Dimming Curve Setting



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. |

Installation Precautions

1. The product 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 product shall not be installed close to the switching power supply with an interval of $\geq 20\text{cm}$ to avoid radiation interference of the switching power supply.