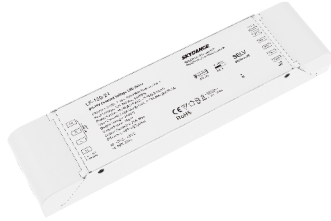


0/1-10V Constant Voltage LED Driver

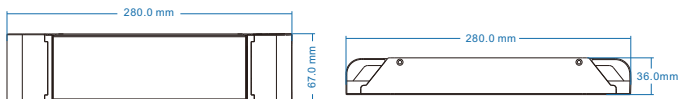
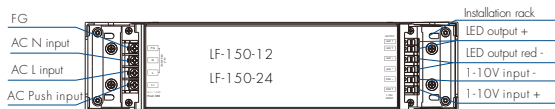
Model No.: LF-150-12, LF-150-24



Features

- Dimming interface: 0-10V, 1-10V, 10V PWM, Resistor, AC Push-Dim
- Universal AC input / Full range
- 1 channel constant voltage output, Max. total output power 150W
- Built-in active PFC function: 0.95 Typ
- Synchronize on multiple number of LED drivers
- Over-heat / Overload / Short circuit protection, recover automatically
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

Mechanical Structures and Installations



Technical Parameters

| Model | LF-150-12 | LF-150-24 | | |
|------------------------------|-------------------------|---|------------|--|
| Output | Output Voltage | 12VDC | 24VDC | |
| | Output Current | Max. 12.5A | Max. 6.25A | |
| | Output Power | Max. 150W | | |
| | Dimming Range | 0~100% | | |
| | Ripple & Noise | <= 150mV/230VAC | | |
| | PWM Frequency | 500Hz | | |
| | Rise Time | 500ms/115VAC, 424ms/230VAC | | |
| Input | Hold Time | 3.6ms/115VAC, 4.5ms/230VAC | | |
| | Input Voltage Range | 100VAC~240VAC | | |
| | Frequency Range | 50/60Hz | | |
| | Efficiency | 92%/230VAC | | |
| | Alternating Current | 1.59A/110VAC, 0.73A/230VAC | | |
| | Power Factor | >0.99/110VAC, >0.95/230VAC | | |
| | Inrush Current | Cold start 27.5A at 230VAC | | |
| Protection | Leakage Current | <5mA | | |
| | No Load Power | 2W/115VAC, 2W/230VAC | | |
| | Over Load Power | Shut down the output when current load \Rightarrow 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 | |
| | | Tcase Max | 70°C | |
| Working Humidity | | 20%~90%RH, non-condensing | | |
| Storage Temperature/Humidity | | -40°C~80°C, 10%~95%RH | | |
| Temperature Coefficient | | $\pm 0.03\%/^{\circ}\text{C}$ (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 | 1/PO/P: 3750VAC | | |
| | Insulation Resistance | 1/PO/P: 100M Ω /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

1. 0/1-10V Connection



- The 0/1-10V input is operable via commercially available simple rotary wall switches 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 5 pieces. The maximum length of the wires from dimmer to LED driver should be no more than 15 meters.
- If the LED driver be used with the RF remote or Push-Dim interface prior to using the 0/1-10V interface, the 0/1-10 V signal should change over 10% to return 0/1-10 V control.

2. AC Push-Dim connection

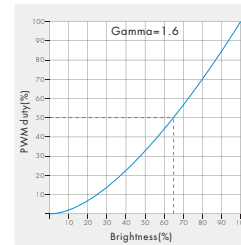


The provided AC Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

- **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

AC Push dimming



0/1-10V dimming

