0/1-10V

0/1-10V Constant Current LED Driver

- Dimming interface: 0-10V, 1-10V, 10V PWM, Resistor, AC Push-Dim
- Universal AC input / Full range
- Flicker-free
- 1 channel constant current output, configurable current via DIP switch
- Built-in active PFC function: 0.95 Typ
- Synchronize on multiple number of LED drivers
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

















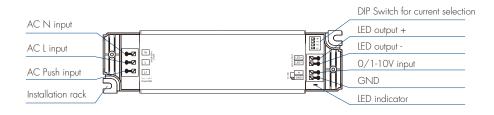


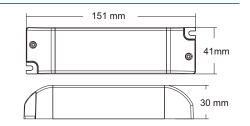


Applications

- Suitable for downlight, spotlight and decorative applications.
- Office / Commercial / Domestic Lighting, Hotels, Classrooms, Warehouse, Health care, Retail and Display.
- Use for retrofit upgrades & new luminaire designs.

Mechanical Structures and Installations





Technical Parameters

	Output Voltage	10-45VDC						
Output	Output Current	150-700mA						
	Output Power	Max. 15W						
	Max Output Voltage	48VDC						
	Dimming Range	0~100%, dimmer depth:0.2%						
	PWM Frequency	8000Hz						
	Current Accuracy	±5%						
	Ripple&Noise	< 100mV						
	Input Voltage Range	100~240VAC						
	Frequency Range	50/60Hz						
	Efficiency	>80%/230VAC						
	Alternating Current	0.15A/115VAC,0.07A/230VAC						
	Anti Surge	L-N:1.5KV						
Input	Startup time	1S/230VAC						
Шрог		>0.98/115VAC,						
	Power Factor	>0.93/230VAC						
	THD	<8%						
	Inrush Current	Cold start 13.7A at 230VAC						
	Leakage Current	< 0.5mA/230VAC						
	No Load Power	< 2W						
	Over Load Power	When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.						
Protection	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.						
	Woking Temperature	-20°C~50°C						
	T-case Max	80°C						
Environment	Working Humidity	20%~90%RH, non-condensing						
	Storage Temp/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						
	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13						
	Withstand Voltage	I/P-O/P: 3750VAC						
Safety&EMC	Insulation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH						
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-3						
	EMC Immunity	EN61000-4-2.3.4.5.6.8.11, EN61547						
	Certications	CE						

LED Current Selection:

1234												
Output Voltage	9-45V	9-45V	9-45V	9-45V	9-43V	9-38V	9-33V	9-30V	9-27V	9-25V	9-23V	9-22V
Output Current	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
Output Power	1.35-6.75W	1.8-9W	2.25-11.25W	2. <i>7</i> -13.5W	3.15-15.05W	3.6-15.2W	4.05-14.85W	4.5-15W	4.95-14.85W	5.4-15 W	5.85-14.95 W	6.3-15.4 W

Wiring Diagram

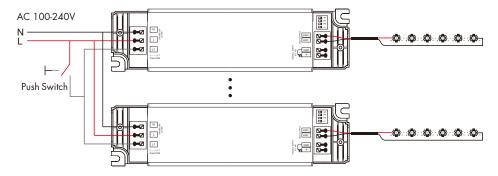
• 0/1-10V Connection



- The 0/1-10V input is operable via commercially available simple rotary wall switchs designed for 0/1-10V dimming equipment or from decicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PVVM, RX(4 in 1).
- In order to ensure dimming consistency, when the connected 0/1-10V dimmer output signal current is 20mA, the number of LED driver connections does not exceed 50 pcs, when the 0/1-10V dimmer output signal current is 50mA, the number of LED driver connections does not exceed 100 pcs.
- The maximum length of the wires from dimmer to LED driver should be no more than 50 meters(use copper wire with a cross-sectional area of 0.75 mm² for wiring).

 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.
- 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.

• AC Push-Dim connection



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

• 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

