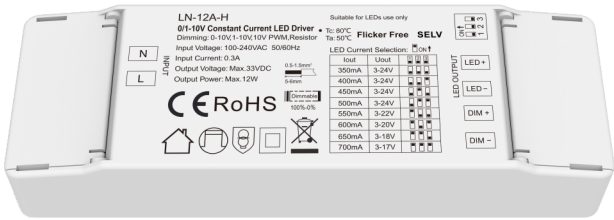


0/1-10V Constant Current LED Driver

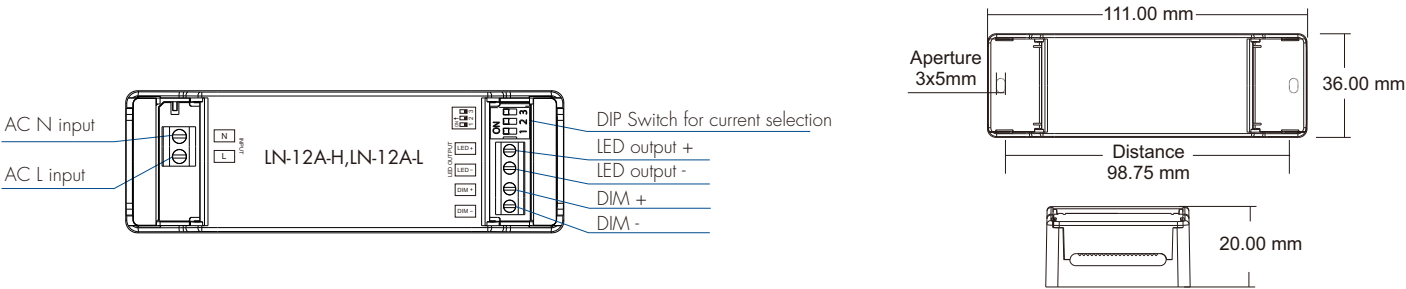
- Dimming interface: 0-10V, 1-10V, 10V PWM, Resistor
- Universal AC input / Full range
- Flicker - Free
- 1 channel constant current output, configurable current via DIP switch
- Synchronize on multiple number of LED drivers
- Over-heat / Over-load / Short circuit protection, recover automatically
- 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

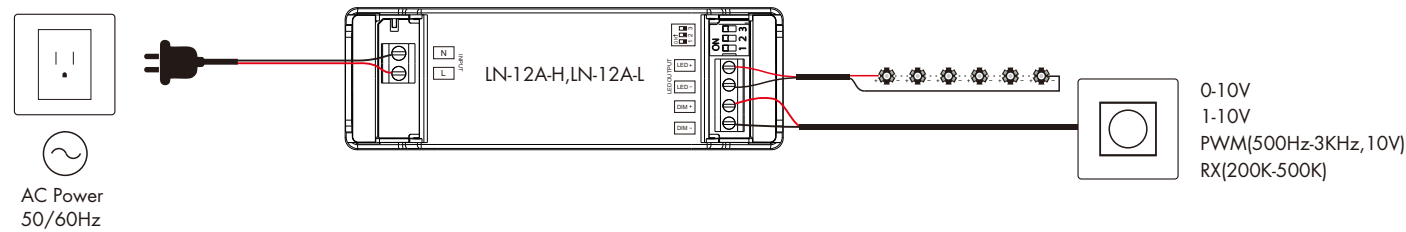
Model		LN-12A-H	LN-12A-L
Output	Output Voltage	3-24VDC	9-45VDC
	Max Output Voltage	33VDC	48VDC
	Output Current	350-700mA	100-450mA
	Output Power	Max. 12W	
	Dimming Range	0~100%, dimming depth:0.01%	
	PWM Frequency	4000Hz	
	Current Accuracy	± 5%	
	Ripple & Noise	< 100mV	
Input	Input Voltage Range	100~240VAC	
	Frequency Range	50/60Hz	
	Efficiency	>79%/230VAC	>80%/230VAC
	Alternating Current	0.3A/115VAC, 0.15A/230VAC	
	Anti Surge	L-N:1KV	
	Inrush Current	Cold start 27A at 230VAC	
	Leakage Current	< 0.5mA/230VAC	
	Standby Power	< 1W	
Protection	Over Load Power	Hiccup,recovers automatically after fault condition is removed	
	Short Circuit	Hiccup,recovers automatically after fault condition is removed	
	Over Temperature	Current decrease when PCB temp>100°C, recovers automatically after fault condition is removed	
Environment	Working Temperature	-20°C~50°C	
	Tcase Max	80°C	
	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	
Safety&EMC	IP Rating	IP20	
	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13	
	Withstand Voltage	I/P-O/P: 3750VAC	
	Insulation Resistance	I/P-O/P: 100MQ/500VDC/25°C/70%RH	
	EMC Emission	EN61000-3-2 Class C, IEC61000-3-2	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61347	
	Certications	CE	

LED Current Selection:



Model	<div><div>1</div><div>2</div><div>3</div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>
LN-12A-H	Output Voltage	3-24V	3-24V	3-24V	3-24V	3-22V	3-20V	3-18V	3-17V
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
LN-12A-L	Output Voltage	9-45V	9-45V	9-45V	9-45V	9-40V	9-34V	9-30V	9-26V
	Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA

Wiring Diagram



- 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).
- 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).

Dimming Curve

0/1-10V dimming

