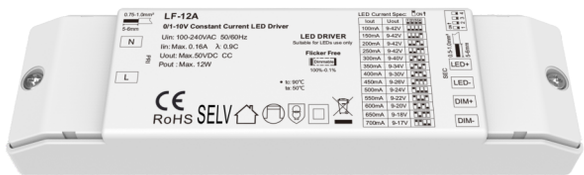
LF-12A

0/1-10V

0/1-10V Constant Current LED Driver

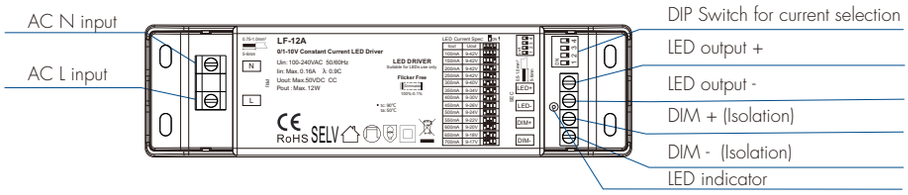
- Dimming interface with isolation: 0-10V, 1-10V, 10V PWM, Resistor
- Universal AC input / Full range
- Flicker - Free
- 1 channel constant current output, configurable current via DIP switch
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

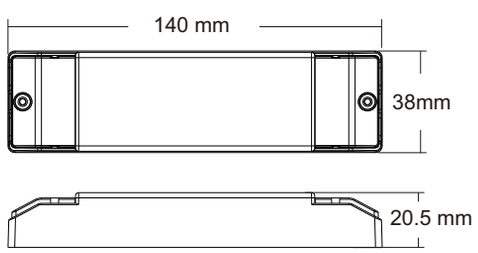


Applications

- 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.

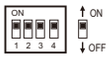
Mechanical Structures and Installations





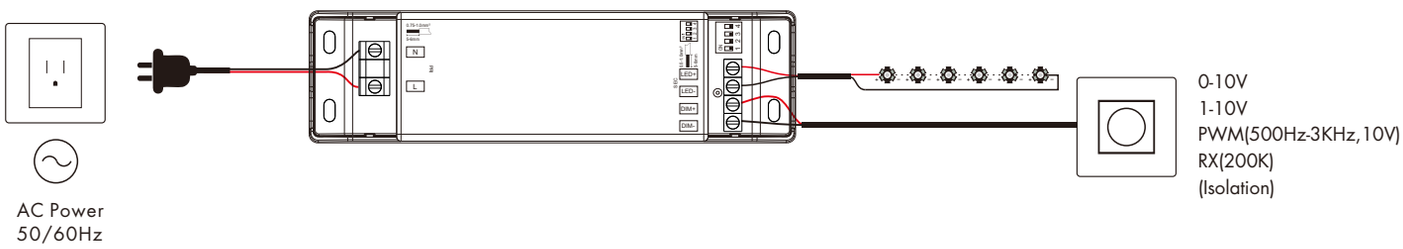
Technical Parameters

Output	Output Voltage	10~42VDC
	Max Output Voltage	50VDC
	Output Current	100-700mA
	Output Power	Max.12W
	Dimming Range	0~100%, dimming depth:0.1%
	PWM Frequency	4KHz
	Current Accuracy	100mA gear ± 10%, the rest of the gear ± 5%
	Ripple & Noise	<5%(Maximum current non dimming state)
Input	Input Voltage Range	100~240VAC
	Frequency Range	50/60Hz
	Efficiency(TYP)	>80% (350mA at full load)
	Input Current	⩽0.15A/115VAC, ⩽0.08A/230VAC
	Power Factor	>0.95/115VAC, >0.9/230VAC
	THD	<12% / 230VAC(at full load)
	Anti Surge	L-N:1.5KV
	Inrush Current	Cold start8A, 135us duration(50% Ipeak) / 230VAC
	Leakage Current	< 0.6mA/230VAC
	Standby Power/No Load Power	<0.5W(DIMMING OFF)
Protection	Over Load Power	Current decrease or Hiccup, recovers automatically after fault condition is removed
	Short Circuit	Output short-circuit, shut down the output; after troubleshooting, restore the output
	Over Temperature	When the PCB temperature >100% ℃, reduce the output current, the indicator light flashes for 1s, after the temperature drops, the current is automatically restored and the indicator light returns to normal.
Environment	Woking Temperature	-20℃~50℃
	Tcase Max	90℃
	Working Humidity	20%~90%RH, non-condensing
	Storage Temp/Humidity	-40℃~80℃, 10%~95%RH
	Temperature Coefficient	±0.03%/℃ (0-50%)
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Zaxes/2min
Safety&EMC	Security Specifications	CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015
	Withstand Voltage	I/P-O/P: 3750VAC
	Insulation Resistance	I/P-O/P: 100M/500VDC/25℃/70%RHΩ
	EMC Emission	CE-EMC:EN55015,EN61000-3-2,EN61000-3-3
	EMC Immunity	CE-EMC: EN61000-4-2,3,4,5thunderbolt1KV),6,11
	Certications	CE

LED Current Selection: 

1 2 3 4													
Output Voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-34V	9-30V	9-26V	9-24V	9-22V	9-20V	9-18V	9-17V
Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12W	3.15-11.9W	3.6-12W	4.05-11.7W	4.5-12W	4.95-12W	5.4-12W	5.85-11.7W	6.3-11.9W

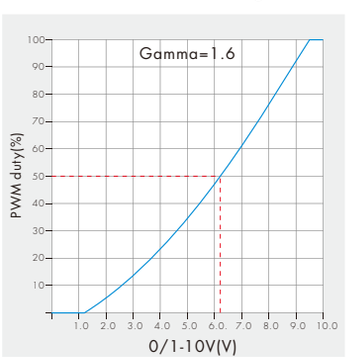
Wiring Diagram



- 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 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 m^2 for wiring).

Dimming Curve

0/1-10V dimming



Installation Note

1. This product must be installed and adjusted by a qualified professional.
2. This product is non-waterproof, When installed outdoors, please ensure it is mounted in a water proof enclosure.
3. LED driver should keep a certain distance from the heating stuff(such as the luminaries radiator).
   The installation interval between the product and the product is recommended to be 15cm, so as not to affect the service life due to poor heat dissipation of the Product.
4. Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
5. If a fault occurs, please do not attempt to fix the product by yourself. If you have any questions, please contact us in time.