Product Description

LF-AAA030B0750-42 is a 30W constant current flicker free LED driver. It has 0-10V/PWM/Rx dimming functions. The input voltage is 220-240Vac. The output current can be adjusted via the DIP switch from 400mA to 750mA, 50mA a step.

Features

- IP20
- Suitable for Class II light fixtures
- Constant current output. The output current can be adjusted via the DIP switch
- Built-in active PFC function
- Standby power consumption is less than 0.5W
- 0-10//PWM/Rx dimming function
- 5-year warranty (Please refer to the warranty condition.)



Applications

- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting

Product Naming



LF- <u>AAA 030 B 0750-42</u>	42: maximum output voltage of 42V0750: maximum output current of 750mA
	 B: without 12V auxiliary power supply 030: rated output power of 30W AAA: a series

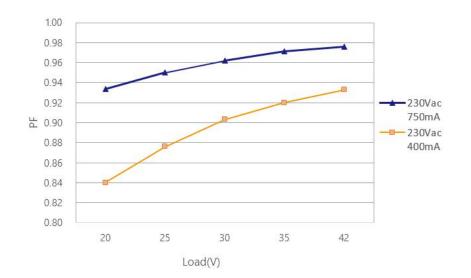
Electrical Characteristics

Model			L	F-AAA030	B0750-42	2		
	Output Voltage			9-4	2V			
Output	Output Current	Current adjustable via the DIP switch, please refer to the DIP Switch Table						
		400mA 450mA	500mA	550mA	600mA	650mA	700mA	750mA
	Flicker Index	IEC-Pst≤1; CIE SVM≤0.9; Modulation Depth≤1% Meet with flicker free standard (IEEE Std 1789-2015)						
	Ripple Current	<10% (rated current)						
	Current Tolerance	±5% (20-42V); ±10% (9-20V)						
	Temperature Drift	±10%						
	Start-up Time	<0.5S@230Vac						
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)						
	DC Input Voltage	180-280Vdc						
	Input Frequency	47Hz-63Hz						
	Input Current	0.3A Max.						
	Power Factor	≥0.9 @230Vac						
	THD	≤15% @230Vac (full load)						
Input	Efficiency	≥82% ≥83% ≥84%						
	Inrush Current	≤60A & 260uS @230Vac						
	Load Quantity	Circuit Breaker Mo	odel	B10	C10	В	16	C16
	Carried by the Circuit Breaker	Quantity (pcs)		25	40	4	0	64
	Leakage Current	≤0.5mA						
	Standby Power Consumption	≤0.5W (DIM OFF)						
Protection	Open Circuit	<59V						
FIOLECTION	Short Circuit	Constant current mode						
	Operating Temperature	-20℃~+45℃						
Environment	Operating Humidity	20-90%RH (no condensation)						
Description	Storage	-30°C∼+ 60°C (six months under class I environment);						
	Temperature/Humidity	ty 10-95%RH (no condensation)						
	Atmospheric Pressure 86KPa~106KPa							

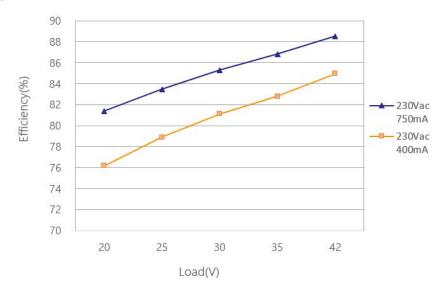
	Certifications	TUV-ENEC, CE, CB, RCM, CCC			
	Withstanding Voltage	I/P-O/P: 3.75KV, 5mA, 60S			
	Insulation Resistance	I/P-O/P: >100MΩ @ 500Vdc			
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,			
		EN 62384: 2016/A1: 2009			
		CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,			
Safety &	Safety Standards	EN 62493: 2015			
Electromagnetic		RCM: AS 61347.2-13: 2018			
Compatibility		CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,			
		IEC 61347-2-13: 2014/AMD1: 2016			
		CCC: GB19510.1-2009, GB19510.14-2009			
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3			
		CCC:GB/T17743, GB17625.1, GB17625.2			
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1KV), 6, 11			
		CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1KV), 6, 11			
	IP Rating	IP20			
Others	RoHS	RoHS 2.0 (EU) 2015/863			
	Warranty Condition	5 yrs (Tc≤78℃)			
	 It is recommender protection devices connecting to elec Please disconnect 	d that customer should install over voltage, under voltage and surge in the power supply circuits of the light fixtures to ensure safety before			
	must conform to UL94-V0 flammability standard or above.				
Remarks	4. As an accessory, the LED driver is not the only factor determining the EMC performance of				
	the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of				
	the whole LED light fixture.				
	5. Unless otherwise stated, the parameters above are test results under these conditions: ambient temperature 25℃, humidity 50%, 100% load, maximum output current and input voltage 230Vac.				

Product Characteristic Curves

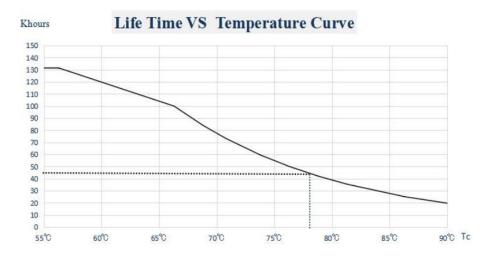
■ PF Curve



Efficiency Curve



Lifetime Curve



Instructions of Dimming Operation

Terminals

INPUT

DIM+	Positive electrode input of 0-10V/PWM/Rx
	dimming
DIM-	Negative electrode input of 0-10V/PWM/Rx
DIM-	dimming
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

OUTPUT	
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LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver

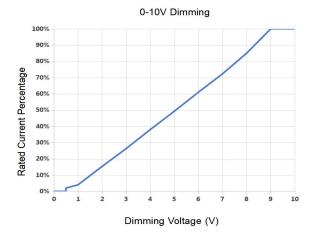
DIP Switch Table

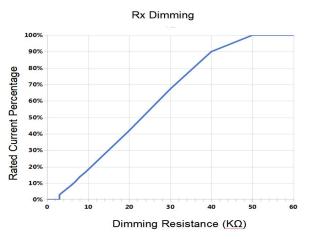
I rated (CC)	1	2	3	4
750mA	OFF	OFF	OFF	OFF
700mA	OFF	OFF	OFF	ON
650mA	OFF	OFF	ON	OFF
600mA	OFF	OFF	ON	ON
550mA	OFF	ON	OFF	OFF
500mA	OFF	ON	OFF	ON
450mA	OFF	ON	ON	OFF
400mA	OFF	ON	ON	ON

Remark: Except the settings mentioned in the table above, other DIP switch settings are default to be the maximum current 750mA.

Operation Instructions of 0-10V/PWM/Rx Dimming

- Connect the 0-10V, PWM or Rx signal to the DIM terminals. Positive electrode connects to DIM+, negative electrode connects to DIM-.
- In 0-10V dimming mode, when the input voltage is less than 0.3V, the light will be turned off. When it's more than 0.5V, the light will be turned on. (±0.2V tolerance is acceptable.)
- The minimum dimming depth of 0-10V dimming is 0.1%.
- The dimming depth of PMW dimming is 0.1%.
- The dimming depth of Rx dimming is 0.1% (with a 50K Ω potentiometer).
- DIM+/- (no signal connection): 100% rated output current.





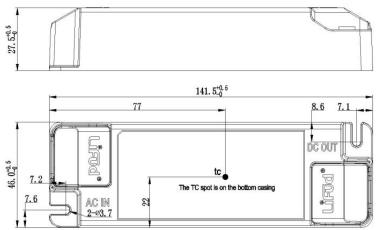


PWM Duty Cycle

Label



Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-AAA030B0750-42
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	10 pcs/layer; 6 layers/ctn; 60 pcs/ctn
Weights	136g/pc; 8.6Kg±5%/ctn

Transportation & Storage

- Transportation
 - Suitable transportation means: vehicles, boats and aircraft.
 - During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

Storage

• Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.



Change Resume

Version	Content of Change	Date	Remark
V1.0	Formal release	18 JUL 2021	