Features

- Zigbee dimmable
- THD <15%
- Output current adjustable via a DIP switch
- Standby power comsumption ≤0.5W
- Flicker free
- IP20
- Suitable for Class II light fixtures (panel light, linear light, etc.)
- 5-year warranty (please refer to the warranty condition.)



Applications

Classroom lighting · indoor office lighting · decorative lighting · commercial lighting · residential lighting

Descriptions

LF-AAZ030-0750-42 is a constant current Zigbee dimmable LED driver with the maximum output power of 31.5W. Its rated input voltage ranges from 198 to 264Vac and output current can be adjusted via a DIP switch from 400 to 750mA with every 50mA as a step. Besides, it has all-round protections, including over voltage protection and short circuit protection.

Product Model



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Electrical Characteristics

Model		LF-AAZ030-0750-42									
	20-42V										
Outrut	Output Current	400mA	450m	hΑ	500mA	550mA	600m	A 650mA	700m	А	750mA
	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4 (complies with IEEE Std 1789-2015)									
Output	Current Tolerance	±5%									
	Temperature Drift	$\pm 5\%$									
	Startup Time	<1S@230Vac									
	220-240	/ac (vol	tag	e limit: 198	8-264Vac)						
	DC Input Voltage	180-280Vdc									
	Input Frequency	47-63Hz									
	Input Current	0.3A max.									
	PF	≥0.93	≥0.94	4 ≥0.95							
	THD	<15%									
Input	Efficiency	≥83.5% ≥84.5% ≥85% ≥85.5% ≥86% ≥86.5%		≥86.5% ≥87%							
	Inrush Current	<16A&110uS @230Vac									
	Loading Quantities			B1	0	C10	C10		B16 C16		
	of Circuit Breaker			26		26		42 42			
	Leakage Current	<0.7mA									
Standby Power Consumption ≤0.5W (when the dim-to-off signal of APP is effective)											
Ducto official	Open Circuit	<59V									
Protections	Short Circuit	Hiccup mode (auto-recovery)									
	Operating Temperature -20°C~+45°C										
	Operating Humidity	20-90%RH (without condensation)									
Environment Descriptions	Storage Temperature/ Humidity	-40°C~+80°C (6 months in Class I environment); 10-90%RH (without condensation)									
	Atmospheric Pressure	86-106kPa									

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Electrical Characteristics

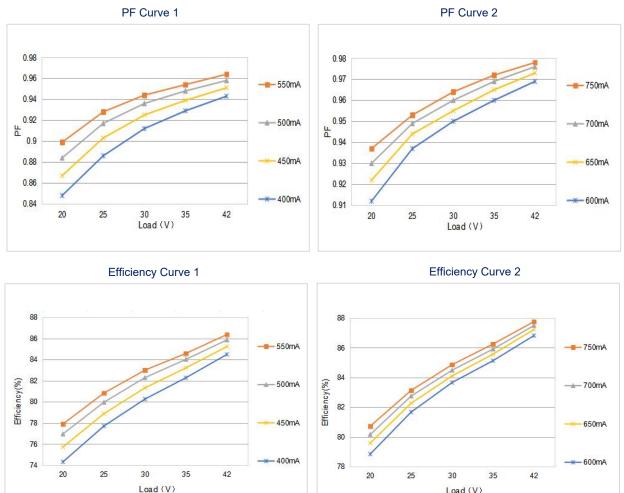
Certifications		CE, CCC				
Safety and EMC	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S				
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc				
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CCC: GB19510.1-2009, GB19510.14-2009				
	EMI	CE-EMC: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2				
	EMS	CE-EMC: EN61000-4-2, 3, 4, 5 (lightning strike L-N: 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike L-N: 1kV), 6, 11				
IP Rating		IP20				
Other	RoHS	RoHS 2.0 (EU) 2015/863				
Parameters	Warranty Condition	5 years (Tc ≤88.2°C)				
	Noise Level	≤25dB (this data is measured in a soundproof room and the noise collector should be 10CM away from LED driver)				
Testing Equipment	Digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber; Everfine EMS61000-5B: Everfine EMS61000-4A, spectroanalyzer: KH3935, Hi-pot tester: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.					
Testing Remark	The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load, maximum output current and input voltage of 230Vac without any special remarks.					
Additional Remarks	 It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. Lifud reserves the right to interpret any of the above parameters. 					

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Load (V)

Product Characteristic Curves

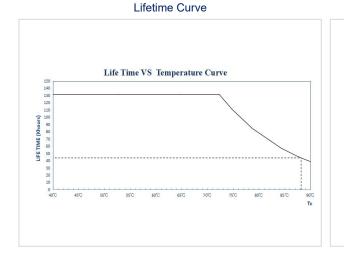
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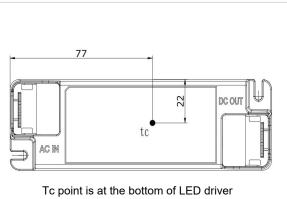


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Tc Point Testing Diagram

Product Characteristic Curves





Definitions of Product Terminals

INPUT		OUTPUT			
AC-L	C-L Input terminal of AC live wire		1		
NC		LED+	Positive electrode output of LED driver		
AC-N	Input terminal of AC neutral wire	LED-	Negative electrode output of LED driver		

Definitions of DIP Switch

Vo DC	I rated (CC)	1	2	3	4	
20-42V	750mA	OFF	OFF	OFF	OFF	
20-42V	700mA	OFF	F OFF OFF		ON	
20-42V	650mA	OFF	OFF	ON	OFF	
20-42V	600mA	OFF	OFF	ON	ON	
20-42V	550mA	OFF	ON	OFF	OFF	
20-42V	500mA	OFF	ON	OFF	ON	
20-42V	450mA	OFF	ON	ON	OFF	
20-42V	400mA	OFF	ON	ON	ON	

Remarks: ① Please disconnect input AC power supply before using the DIP switch function.

2 Except the known DIP switch modes, the default value of other DIP switch modes is 750mA (max).

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Zigbee Net-in & Net-out Operation Instructions

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- The standard of Zigbee 3.0 protocol is used in the design.
- Net-in effective distance: with Tuya wireless gateway, the distance is about 40m; with Tuya wired gateway, the
 distance is about 30m (measured in a barrier-free condition).
- Control distance: with Tuya wireless gateway, the distance is about 50m; with Tuya wired gateway, the distance is about 30m (measured in a barrier-free condition).
- Quantity of LED drivers that a gateway can match for: 30 (with Tuya wireless gateway and measured in a barrier-free condition)
- Net-in operation: a. connect your phone to Wi-Fi -- turn its location service on -- open the "Tuya Smart" APP.
 b. gateway adding operation: click "Add Devices" after entering the APP interface -- click "Gateway Central Control" -- select "Wireless Gateway" -- select "Wi-Fi Network" -- the gateway light flashes quickly -- the APP shows "Gateway Central Control" -- click "Successfully Add Gateway" (e.g. wireless gateway adding operation)

c. LED driver adding operation: click "Add Devices" at the APP "Gateway Central Control" interface -- click "Lighting" -- select "Light Source" -- the luminaire turns on and off alternately 3 times after the AC input terminal of LED driver is continuously on/off 5 times -- the APP shows Zigbee light -- click "Add Drivers".

- When a device that has been connected to the network joins a new gateway, the previous network needs to be disconnected
- Net-in & net-out operation: if the luminaire turns on and off alternately 3 times after the AC input terminal of LED driver is continuously on/off 5 times (within 5 sec), it indicates that net-in or net-out operation is successful, and you can then search for devices again.

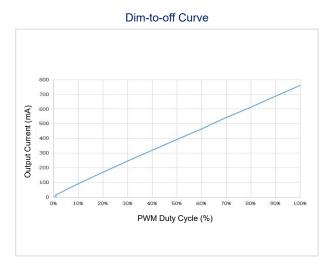


Zigbee Dimming Operation Instructions

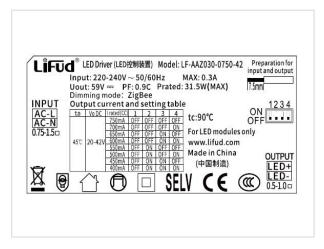
- · When the dim-to-off signal of APP is effective, the LED light turns off subsequently.
- Dimming range: 2%-100% (@Vo max), dimming frequency: 3.2kHz.
- Output current range: 14-750mA (e.g. 750mA shift)

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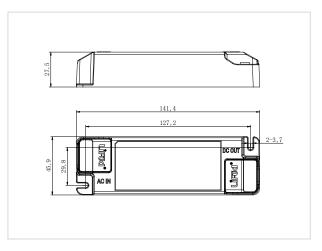


Label



Model	Overall Appearance Dimension (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-AAZ030-0750-42	141.4*45.9*27.7 mm	127.2 mm	3.7 mm





Packaging Specifications

Model	LF-AAZ030-0750-42			
Carton Size	385*285*210 mm (L*W*H)			
Quantity	10 pcs/layer; 7 layers/ctn; 70 pcs/ctn			
Weight	0.1355 kg/pc; 10.35 kg/ctn			

Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

• The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.