

**Features**

- Bluetooth dimmable
- Dim to off
- THD <10%
- Flicker free
- IP20
- Suitable for Class II light fixtures (strip light)
- 5-year warranty (please refer to the warranty condition)



**Applications**

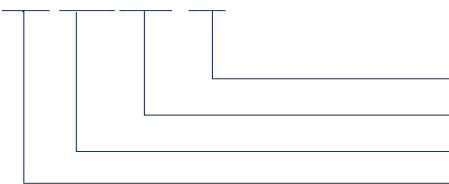
· LED strip light · luminous character · light box

**Descriptions**

LF-GAB150B6250-24 is a constant voltage Bluetooth dimmable LED driver with the maximum output power of 150W. Its rated input voltage ranges from 198 to 264Vac; output current from 0 to 6.25A. The CCT and luminance of light fixture controlled by this LED driver is adjustable via “Tuya Smart” App. Besides, it has all-round protections, including over voltage protection, over current protection and short circuit protection.

**Product Model**

LF - GAB 150B 6250 - 24



- 24: maximum output voltage: 24V
- 6250: maximum output current: 6250mA
- 150B: rated power: 150W; one-channel output
- GAB: CV Bluetooth LED driver series

### ■ Electrical Characteristics

Model		LF-GAB150B6250-24				
Output	Output Voltage	24V				
	Output Current	0-6250mA				
	Flicker Index	IEC-Pst $\leq 1$ , CIE SVM $\leq 0.4$ Complies with IEEE Std 1789-2015				
	Voltage Tolerance	$\pm 3\%$				
	Temperature Drift	$\pm 5\%$				
	Start-up Time	$< 1.2S @ 230Vac$				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	DC Input Voltage	180-280Vdc				
	Input Frequency	47-63Hz				
	Input Current	1A max.				
	PF	$\geq 0.95$				
	THD	$< 10\%$				
	Efficiency	$\geq 92\%$				
	Inrush Current	$< 73A/250\mu S @ 230Vac$				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	4	6	6	10
	Leakage Current	$< 0.7mA$				
Standby Power Consumption	$\leq 2W$ (dim to off)					
Protections	Over Voltage	$< 30V$				
	Short Circuit	No damage (auto-recovery)				
Environment Descriptions	Operating Temperature	$-20^{\circ}C \sim +50^{\circ}C$				
	Operating Humidity	20-90%RH (without condensation)				
	Storage Temperature/ Humidity	$-40^{\circ}C \sim +80^{\circ}C$ (6 months in Class I environment); 10-90%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				

**■ Electrical Characteristics**

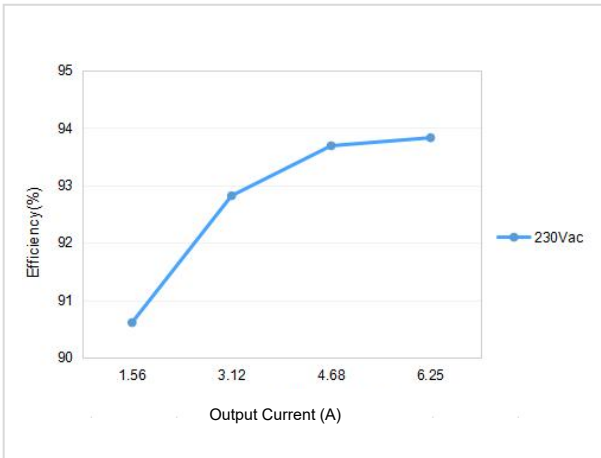
<b>Safety and EMC</b>	Certifications	ENEC, CE, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75kVac 5mA 60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1:2015, EN61347-2-13: 2014/A1: 2017, EN62384 2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 RCM: AS 61347.2-13: 2018 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 L-N: 1kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike L-N: 1kV), 6, 11
<b>Other Parameters</b>	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 years (Tc ≤88°C)
	Noise Level	≤25dB (this data is measured in a soundproof room and the noise collector should be 10CM away from LED driver)
<b>Testing Equipment</b>	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, withstanding voltage tester: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.	
<b>Testing Remarks</b>	The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac without any special remarks.	

■ **Electrical Characteristics**

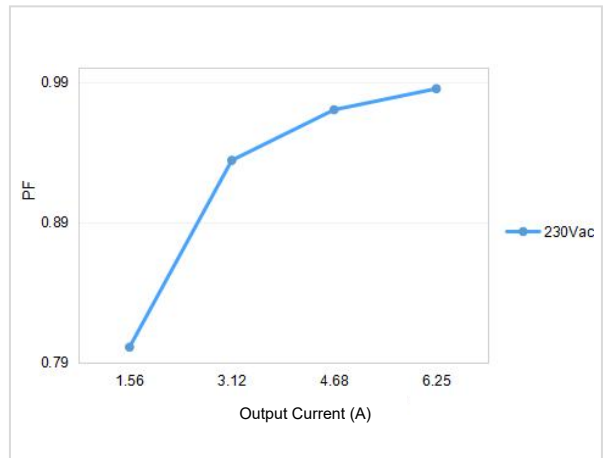
<b>Additional Remarks</b>	<ol style="list-style-type: none"> <li>1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.</li> <li>2. The LED driver used in combination 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.</li> <li>3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.</li> <li>4. 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.</li> <li>5. Lifud reserves the right to interpret any of the above parameters.</li> </ol>
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■ **Product Characteristic Curves**

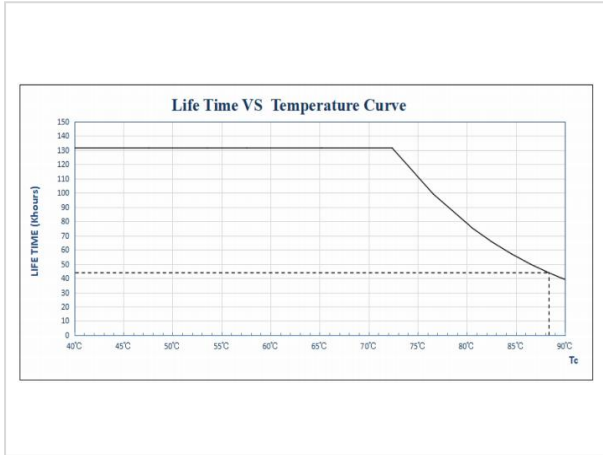
Efficiency Curve



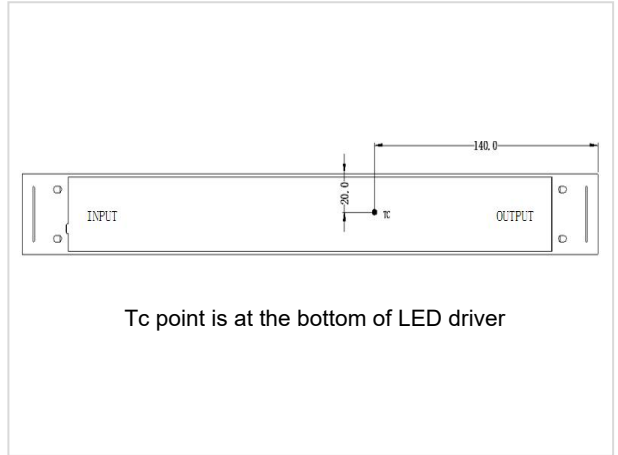
PF Curve



Lifetime Curve



Tc Point Testing Diagram



■ Definitions of Product Terminals

INPUT	
AC-L	Input terminal of AC live wire
NC	
AC-N	Input terminal of AC neutral wire

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

■ Bluetooth Net-in & Net-out Operation Instructions

- The standard of Bluetooth LE 5.0 protocol is used in the design.
- Net-in effective distance: about 40m (with Tuya wireless gateway); about 30m (with Tuya wired gateway) (measured in a barrier-free condition)
- Control distance: about 50m (with Tuya wireless gateway); about 30m (with Tuya wired gateway) (measured in a barrier-free condition)
- Maximum 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 the Bluetooth and location services of your phone 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)

■ **Bluetooth Net-in & Net-out Operation Instructions**

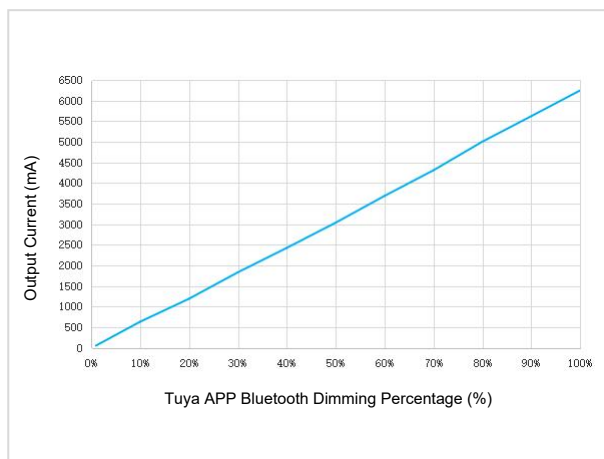
c. LED driver adding operation: click “Add Devices” at the APP Gateway Central Control interface -- click “Lighting” -- select “Light Source” -- the luminaire turns on and off alternately 3 times after the AC input terminal of LED driver is continuously on/off 5 times -- the APP shows Zigbee CCT -- click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

- When a device that has been connected to the network joins a new gateway, the previous network needs to be disconnected.
- 2 ways for successful net-in & net-out operation: a. the AC input terminal of LED driver is continuously on/off 5 times (within 5 sec), the luminaire turns on and off alternately 3 times; b. press the reset button at the output terminal for 5 sec, the luminaire turns on and off alternately 3 times. Both of them indicate that net-in or net-out operation is successful, and you can then search for devices again.

■ **Bluetooth Dimming Operation System Diagram**



Bluetooth Dimming Curve



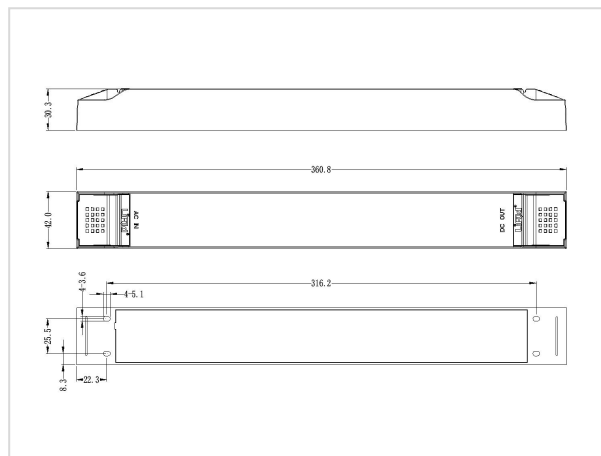
Input: 230Vac; output: 24Vdc/6250mA (the data is obtained from Tuya APP Bluetooth dimming test and the chart is for reference only)

■ Label



■ Structure & Dimensions (unit: mm; tolerance: ±0.5mm)

Model	Overall Appearance Dimension (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-GAB150B6250-24	360.8*42*30.3 mm	316.2 mm	5.1 mm



■ **Packaging Specifications**

Model	LF-GAB150B6250-24
Carton Size	360.8*42*30.3 mm (L*W*H)
Quantity	5 pcs/layer; 6 layers/ctn; 30 pcs/ctn
Weight	0.36 kg/pc; 11.8 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.