

Features

- Bluetooth CCT changeable
- THD <15%
- Output current adjustable via a DIP switch
- Standby power consumption ≤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

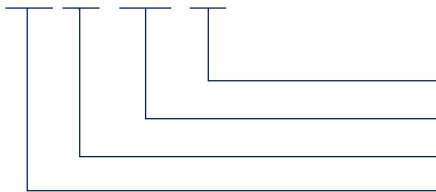
· Classroom lighting · indoor office lighting · decorative lighting · commercial lighting · residential lighting

Descriptions

LF-ABB030-0750-42 is a constant current Bluetooth tunable white LED driver with the maximum output power of 30W. Its rated input voltage ranges from 198 to 264Vac and output current can be adjusted via a DIP switch from 600 to 750mA with every 50mA as a step. Besides, it has all-round protections, including over voltage protection and short circuit protection.

Product Model

LF - ABB 030 - 0750 - 42



- 42: maximum output voltage: 42V
- 0750: maximum output current: 750mA
- 030: rated power: 30W
- ABB: Bluetooth tunable white LED driver series

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■ Electrical Characteristics

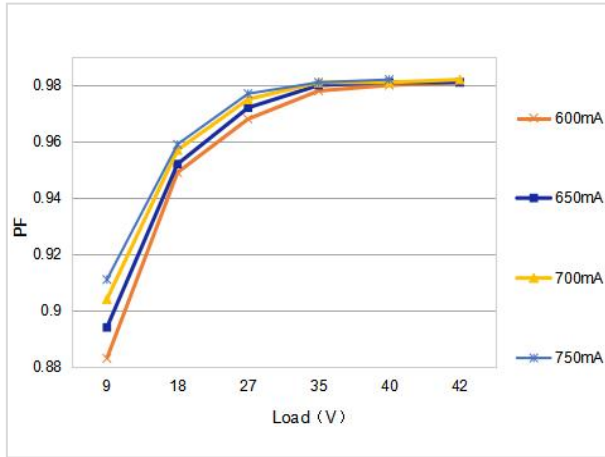
Model		LF-ABB030-0750-42				
Output	Output Voltage	9-42V	9-42V	9-42V	9-40V	
	Output Current	600mA	650mA	700mA	750mA	
	Flicker Index	IEC-Pst \leq 1, CIE SVM \leq 0.4 (complies with IEEE Std 1789-2015)				
	Current Tolerance	\pm 5%				
	Temperature Drift	\pm 10%				
	Startup Time	<1.5S@230Vac				
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	DC Input Voltage	180-280Vdc				
	Input Frequency	47-63Hz				
	Input Current	0.25A max.				
	PF	\geq 0.94				
	THD	<15%				
	Efficiency	\geq 85.5%	\geq 86.5%			
	Inrush Current	<16A/110uS @230Vac				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	26	26	42	42
	Leakage Current	<0.7mA				
Standby Power Consumption	\leq 0.5W (when the dim-to-off signal of APP is effective)					
Protections	Open Circuit	<59V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-20°C~+45°C				
	Operating Humidity	20-90%RH (without condensation)				
	Storage Temperature/ Humidity	-30°C~+80°C (6 months in Class I environment); 10-90%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics

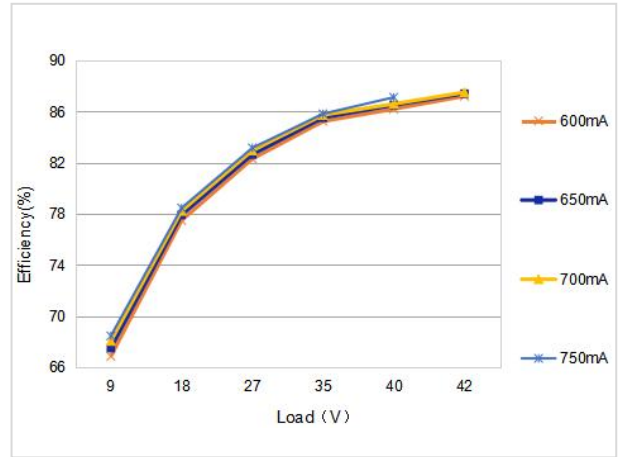
Safety and EMC	Certifications	CE, CCC
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CCC: GB19510.1-2009, GB19510.14-2009
	EMI	CE-EMC: EN55015, EN61000-3-2, EN61000-3-3 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
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 years (Tc ≤82.9°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, withstanding voltage tester: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.	
Additional Remarks	<ol style="list-style-type: none"> 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. 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.. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 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. 5. Lifud reserves the right to interpret any of the above parameters. 	

■ **Product Characteristic Curves**

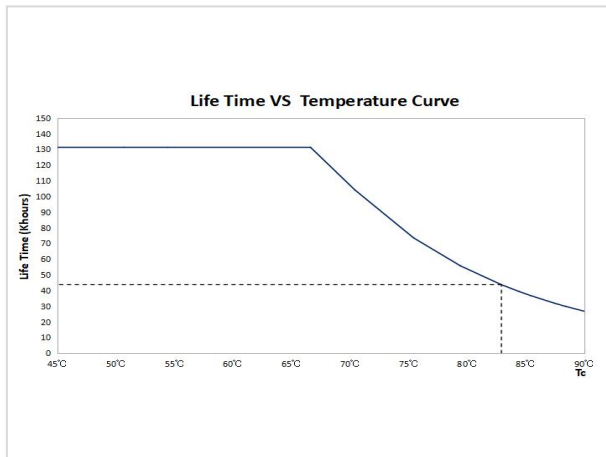
PF Curve



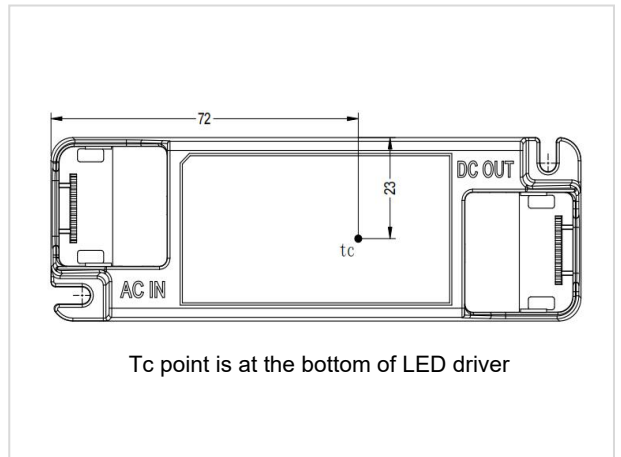
Efficiency Curve



Lifetime Curve



Tc Point Testing Diagram



■ **Definitions of Product Terminals**

INPUT		OUTPUT	
AC-L	Input terminal of AC live wire	LED+	Positive electrode output of LED driver
NC		WW-	Negative electrode output of driver's warm light
AC-N	Input terminal of AC neutral wire	CW-	Negative electrode output of driver's cold light

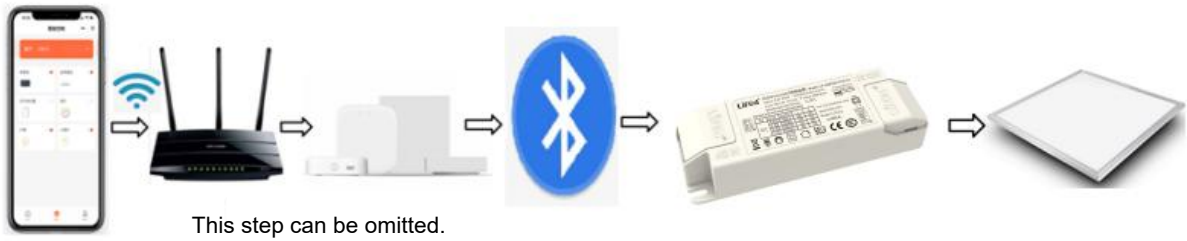
■ **Definitions of DIP Switch**

Vo DC	I rated (CC)	1	2
9-40V	750mA	OFF	OFF
9-42V	700mA	OFF	ON
9-42V	650mA	ON	OFF
9-42V	600mA	ON	ON

Remark: please disconnect input AC power supply before using the DIP switch function.

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

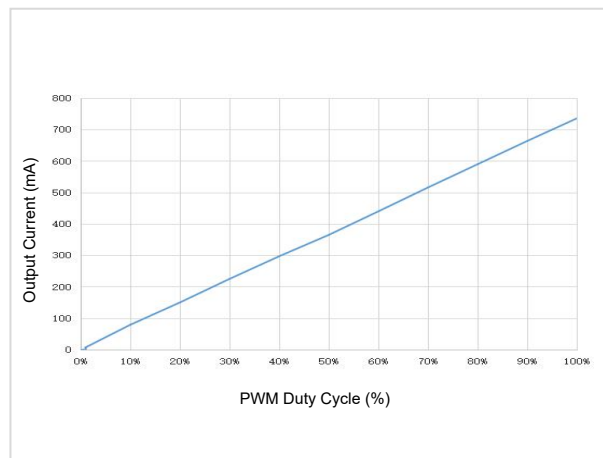
- The standard of Bluetooth LE 5.0 protocol is used in the design.
- Net-in effective distance: about 10m (measured in a barrier-free condition).
- Maximum quantity of LED drivers that a gateway can match for: 20 (with Tuya wireless gateway and measured in a barrier-free condition)
- Net-in operation:
 - turn the Bluetooth service of your phone on -- open the "Tuya Smart" APP.
 - 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)
 - LED driver adding operation: click "Add Devices" at the APP 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 Bluetooth 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.
- 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.



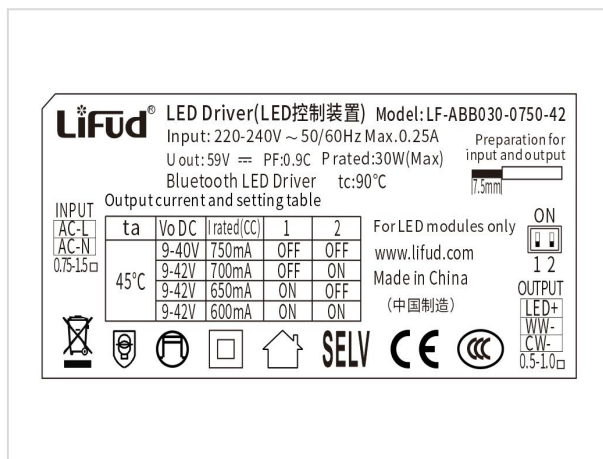
■ Bluetooth Dimming Operation Instructions

- When the dim-to-off signal of APP is effective, the LED light turns off subsequently.
- Dimming range: 1.5%-100% (@U_o max), dimming frequency: 3.2kHz.
- Output current range: 9-750mA (e.g. 750mA shift)
- Default settings: two-channel out with 50% warm light and 50% cold light; 100% brightness

Dim-to-off Curve

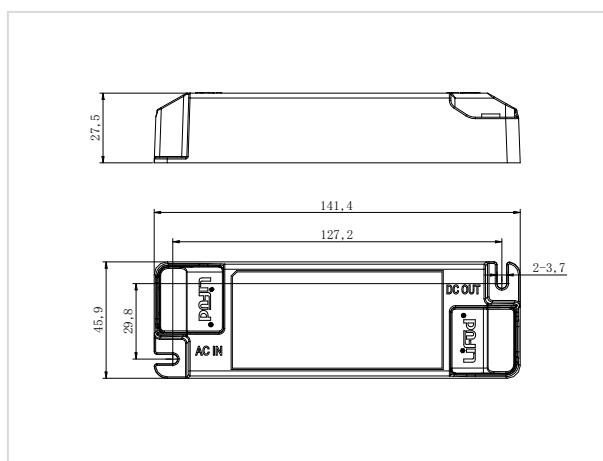


■ Label



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

Model	Overall Appearance Dimension (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-ABB030-0750-42	141.4*45.9*27.7 mm	127.2 mm	3.7 mm



■ **Packaging Specifications**

Model	LF-ABB030-0750-42
Carton Size	385*285*210 mm (L*W*H)
Quantity	10 pcs/layer; 7 layers/ctn; 70 pcs/ctn
Weight	0.132 kg/pc; 10.1 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 Technology Co., Ltd. reserves the right to interpret any contents of this specification.