

### Features

- IP20
- Suitable for Class II light fixtures
- Smooth dimming
- Supports Triac dimming; compatible with trailing edge dimmers
- 5-year warranty (please refer to the warranty condition)



### Applications

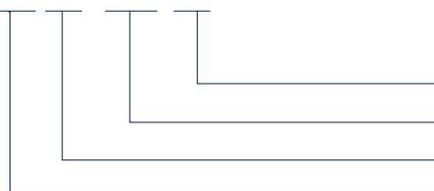
· Indoor office lighting · decorative lighting · commercial lighting · residential lighting

### Descriptions

LF-BAT040-xxxx-xx is a constant current Triac dimmable LED driver with the maximum output power of 40W. Its input voltage ranges from 198 to 264Vac. It has all-round protections, including over voltage protection and short circuit protection.

### Product Model

LF - BAT 040 - xxxx - xx



- xx: maximum output voltage: xxV
- xxxx: maximum output current: xxxmA
- 040: rated power: 40W
- BAT: Triac dimmable LED driver

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## ■ Electrical Characteristics

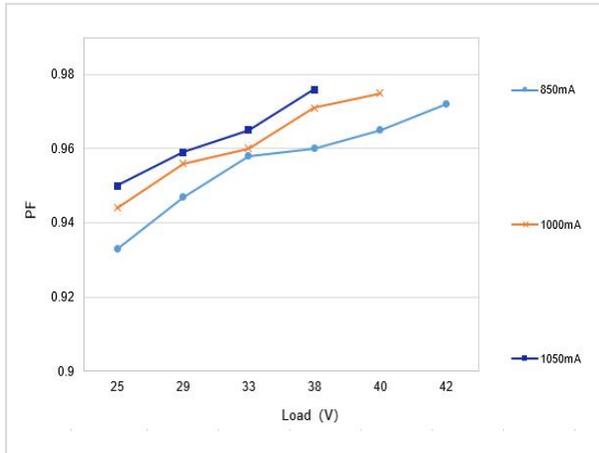
Model		LF-BAT040-xxxx-xx				
<b>Output</b>	Output Voltage	25-42V	25-40V	25-38V		
	Output Current	850mA	1000mA	1050mA		
	Flicker Index	IEC-Pst $\leq$ 1, CIE SVM $\leq$ 0.4 Complies with IEEE Std 1789-2015				
	Current Tolerance	$\pm$ 5%				
	Temperature Drift	$\pm$ 10%				
	Startup Time	<0.5S@230Vac				
<b>Input</b>	Input Voltage	220-240Vac (voltage limit: 198-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.4A max.				
	PF	$\geq$ 0.90				
	THD	<25%				
	Efficiency	$\geq$ 86%@230Vac				
	Inrush Current	<20A&100uS@230Vac				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	16	16	26	26
Leakage Current	<0.7mA					
<b>Protections</b>	Open Circuit	<59V				
	Short Circuit	No damage (auto-recovery)				
<b>Environment Descriptions</b>	Operating Temperature	-20°C - +65°C				
	Operating Humidity	20-90%RH (without condensation)				
	Storage Temperature/Humidity	-40°C - 80°C (6 months in Class I environment); 10-95%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				
<b>Safety and EMC</b>	Certifications	TUV-ENEC, CE, UKCA, RCM, CCC				
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S				
	Insulation Resistance	I/P-O/P: >100M $\Omega$ @500Vdc				
	Safety Standards	ENEC: EN 61347-2-13:2014/A1:2017 EN 61347-1:2015/A1:2021 EN IEC62384:2020 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015/A1:2021 RCM: AS 61347.2.13:2018 & AS/NZS 61347.1:2016+A1 CCC:GB19510.1-2009, GB19510.14-2009 UKCA-LVD: EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017				
	EMI	CE-EMC/RCM/ UKCA-EMC:EN55015, EN61000-3-2, EN61000-3-3 EN 61547:2009 CCC:GB/T17743, GB17625.1				
	EMS	CE-EMC/RCM/UKCA: 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				

### ■ Electrical Characteristics

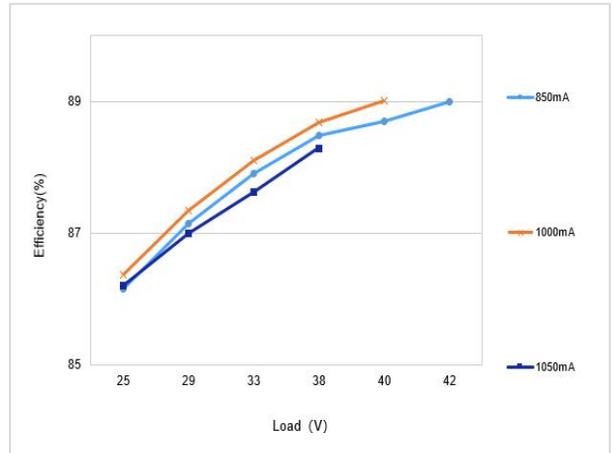
<b>Other Parameters</b>	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc ≤100°C)
	Noise Level	≤29dB (this data is measured in a soundproof room and the noise collector should be 10CM away from LED driver)
<b>Testing Equipment</b>	Digital power meter: CHROMA66202, oscilloscope: Tektronix DP03014, DC electronic load: 1T8733, LED board, constant temperature and humidity chamber; Everfine EMS61000-5B; Everfine EMS61000-4A, spectroanalyzer: KH3935, Hi-pot tester: SE7440, flicker tester (flicker-free coefficient test) LFA-3000, etc.	
<b>Testing Remark</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.	
<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. Lifud reserves the right to interpret any of the above parameters.</li> </ol>	

■ **Product Characteristic Curves**

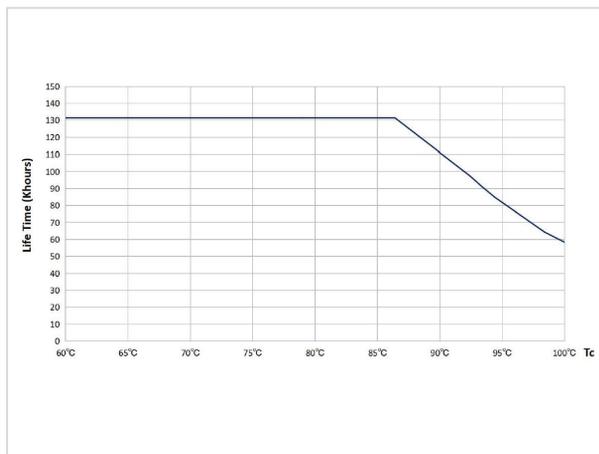
PF Curve



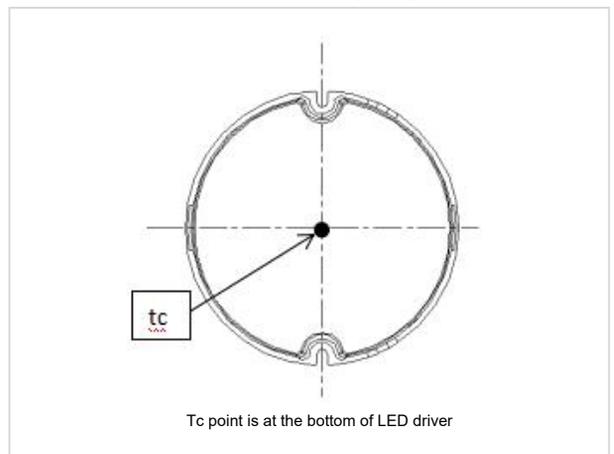
Efficiency Curve



Lifetime Curve



Tc Point Testing Diagram



■ **Product Wiring Definition**

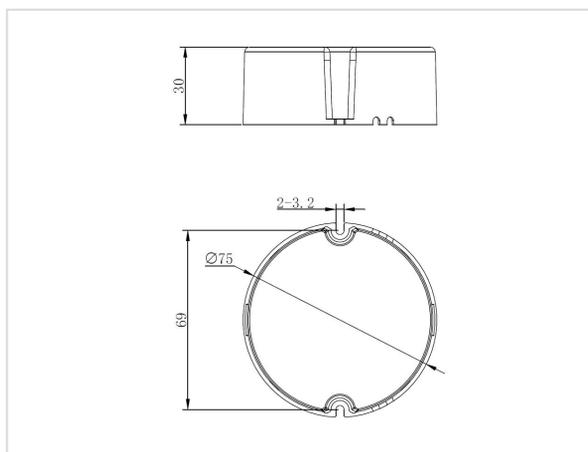
Function	Wiring Type	No.	Sectional Area	Color	Exposed Length
AC-L	Double-insulated Teflon wire	18AWG	0.75mm <sup>2</sup>	Brown	150mm ± 15mm
AC-N	Double-insulated Teflon wire	18AWG	0.75mm <sup>2</sup>	Blue	150mm ± 15mm
LED+	Single-insulated Teflon wire	20AWG	0.5mm <sup>2</sup>	Red	150mm ± 15mm
LED-	Single-insulated Teflon wire	20AWG	0.5mm <sup>2</sup>	Black	150mm ± 15mm



■ **Structure and Dimensions (unit: mm tolerance: ±0.5mm)**

Appearance and dimensions

Model	Overall Appearance Dimension (D*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-BAT040-xxxx-xx	75*30 mm	69 mm	3.2 mm



■ **Packaging Specifications**

Model	LF-BAT040-xxxx-xx
Carton Size	385*285*210 mm (L*W*H)
Quantity	12 pcs/layer; 6 layers/ctn; 72 pcs/ctn
Weight	0.22 kg/pc; 16.3 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.