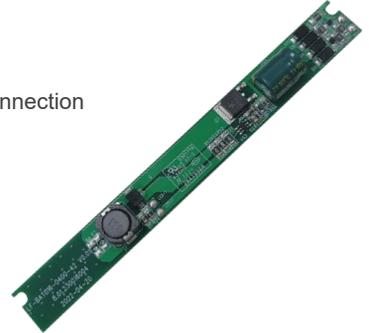


### Features

- All-round protections: short circuit, over load, no load and anti-reverse connection
- Compact size
- Triac dimmable; maximum current: 400mA
- IP20
- 5-year warranty (please refer to the warranty condition)



### Applications

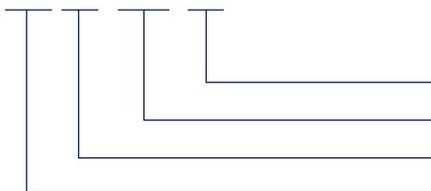
· Horticultural lighting · indoor office lighting · decorative lighting · commercial lighting · residential lighting

### Descriptions

LF-BAT016-0400-42 is a 16W constant current Triac dimmable LED driver. Its rated input voltage is  $48V_{dc} \pm 5\%$  and maximum output current is 400mA. It features compact size, built-in design (inside the magnetic track box), high efficiency and flicker-free effect during the whole process of dimming.

### Product Model

LF - BAT 016 - 0400 - 42



- 42: maximum output voltage: 42V
- 0400: maximum output current: 400mA
- 016: rated power: 16W
- BAT: Triac dimmable LED driver

#### Lifud Technology Co., Ltd.

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### ■ Electrical Characteristics

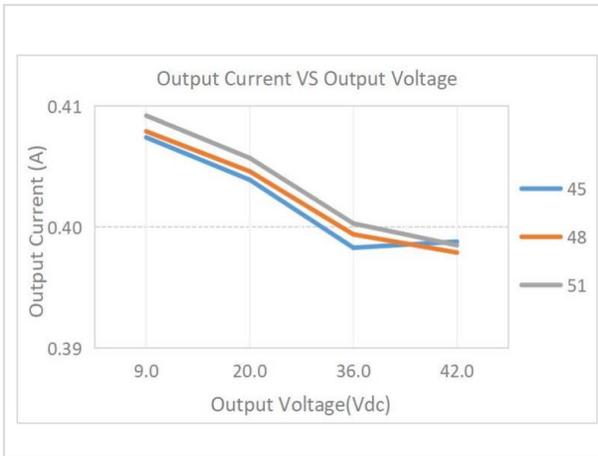
Model		LF-BAT016-0400-42
Environment Descriptions	Output Current	400mA
	Output Voltage	9-42V ( $V_{in}-V_o \geq 7V$ )
	Output Power	16.8W max.
	Flicker Index	IEC-Pst $\leq 1$ , CIE SVM $\leq 0.9$ , modulation depth $\leq 1\%$ Complies with flicker-free standard: IEEE Std 1789-2015
	Current Tolerance	$\pm 5\%$
Input	Input Voltage	48Vdc $\pm 5\%$ (positive or negative electrode not necessary to be identified)
	Input Current	0.45A max.
	Efficiency	$\geq 91\%$ (load voltage and current: 42V; 400mA)
Protections	Short Circuit	Auto-recovery
	Over Load	The output current decreases when the actual voltage exceeds the output voltage and automatically recovers after the load is lightened.
	No Load	The driver cannot be easily damaged (no-load voltage $\leq 59V$ ).
	Anti-reverse Connection	The positive or negative electrode of input terminal is not necessary to be identified.
Environment Descriptions	Operating Temperature	-20°C - +60°C
	Operating Humidity	20-90%RH (no condensation)
	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 10-90%RH (no condensation)
	Atmospheric Pressure	86-106kPa
Other Parameters	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 years
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, flicker tester (flicker-free coefficient test): 60N-01, etc.	
Testing Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 48Vdc.	

■ **Electrical Characteristics**

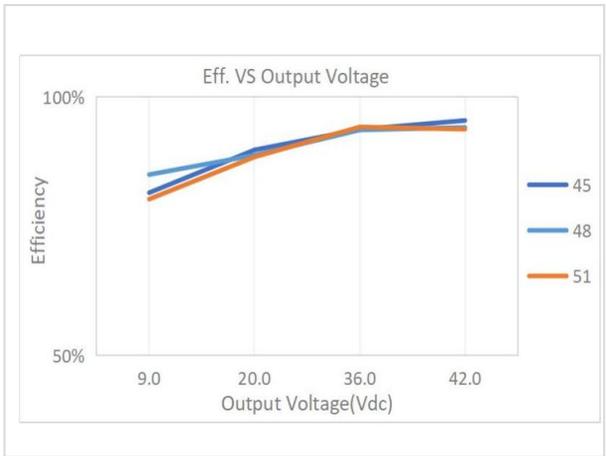
<b>Testing Remarks</b>	<ol style="list-style-type: none"> <li>1. When adjusting the output current via the DIP switch, please disconnect input AC power supply first so as to use the DIP switch without the input AC power supply connected.</li> <li>2. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above.</li> <li>3. Pay attention to keeping the driver away from water, moisture and ESD during application.</li> <li>4. In order to avoid any abnormalities during driver's application, pay attention that the PCB be insulated from the metal parts of casing.</li> </ol>
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■ **Product Characteristic Curves**

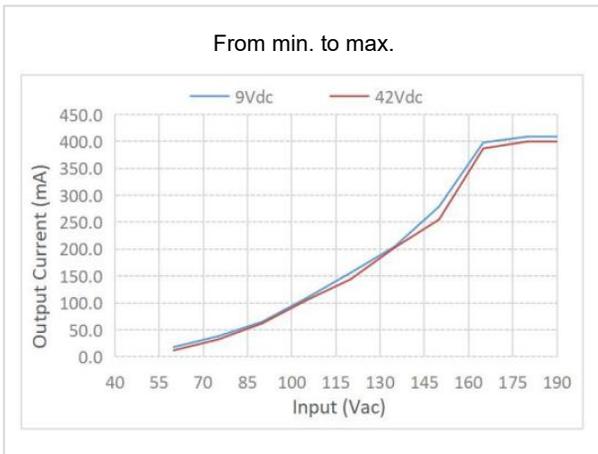
Output Current & Voltage Curve



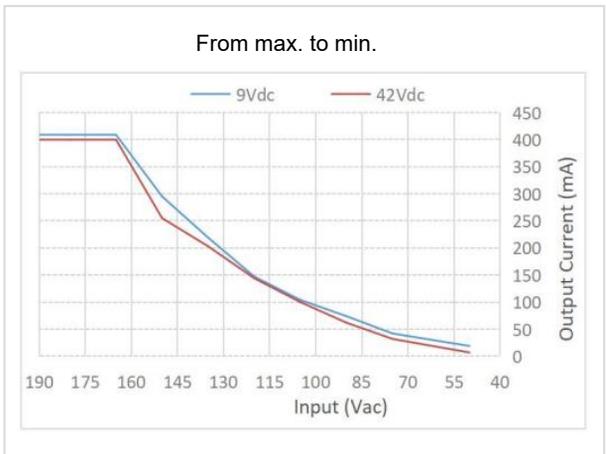
Efficiency Curve



Dimming Curve 1



Dimming Curve 2



Remark: input: 48Vdc; output: 42Vdc/400mA; 9Vdc/400mA (this data is measured by Lifud Triac dimmer and the charts are for reference only. When choosing signal converter, make sure that the output signal of converter is smooth and stable, otherwise the dimming would be influenced.)

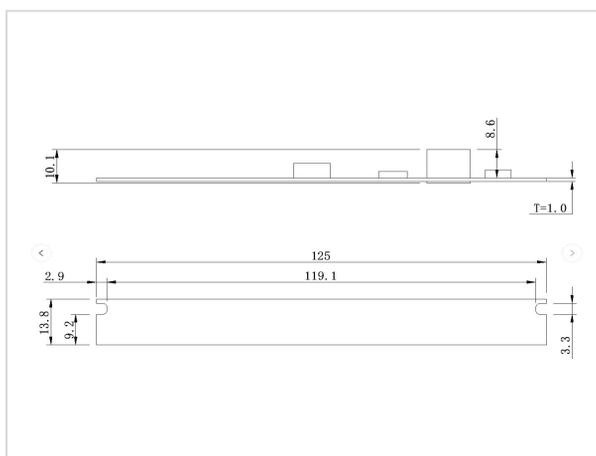
■ **Product Definition**

Product Terminals

INPUT		OUTPUT	
48VIN	DC input terminal (positive or negative electrode not necessary to be identified)	LED+	Positive electrode output of LED driver
48VIN	DC input terminal (positive or negative electrode not necessary to be identified)	LED-	Negative electrode output of LED driver

■ **Structure & Dimensions (unit: mm)**

Appearance dimension



■ **Packaging Specifications**

Model	LF-BAT016-0400-42
Carton Size	385*285*210 mm (L*W*H)
Quantity	20 pcs/layer; 11 layers/ctn; 220 pcs/ctn
Weight	0.01 kg/pc; 3.00 kg/ctn

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## ■ 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.