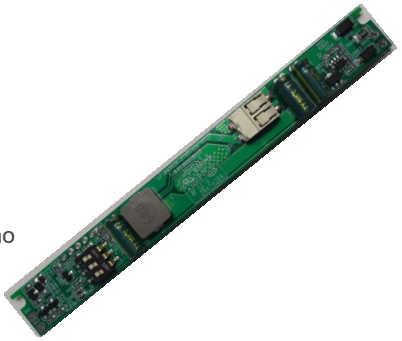
Features

- Constant current output and current adjustable via a DIP switch
- DALI 2.0 standard applied
- Flicker free during the whole process of dimming
- Dimming depth: 1%
- All-round protections: short circuit protection, over load protection, no load protection and anti-reverse protection
- Compact size
- 5-year warranty (please refer to the warranty condition.)



Applications

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

Descriptions

LF-BAD016-0400-42B is a DC/DC constant current DALI dimmable LED driver. Its rated input voltage range is 48Vdc±5% and output current can be adjusted via a DIP switch from 100 to 400mA with every 50mA as a step. It has features of compact size, built-in design (inside the magnetic track box) and high efficiency.

Product Model

LF - BAD 016 - 0400 - 42B

- 42: maximum output voltage: 42V; B: DT6
- 0400: maximum output current: 400mA
- 016: rated power: 16W
- BAD: CC DALI dimmable LED driver

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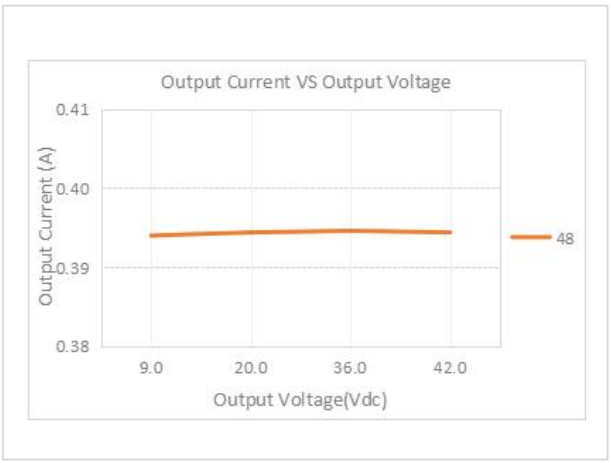
■ Electrical Characteristics

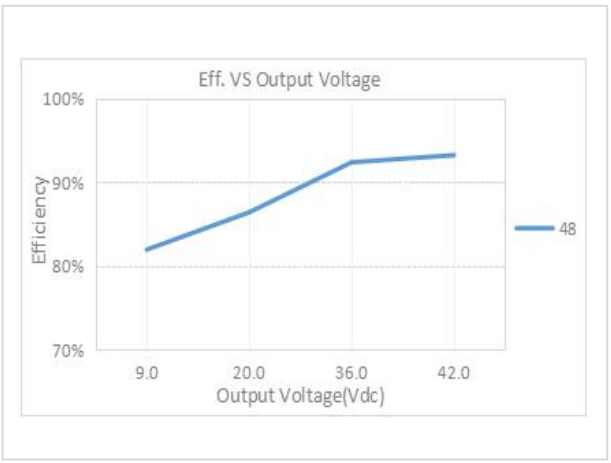
Model		LF-BAD016-0400-42B						
Output	Output Current	Adjustable via a DIP switch						
		100mA	150mA	200mA	250mA	300mA	350mA	400mA
	Output Voltage	9-42V (Vin-Vo ≥7V)						
	Output Power	16.8W max.						
	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, modulation depth ≤1% Complies with flicker-free standard: IEEE Std 1789-2015						
	Current Tolerance	±20%						
	Temperature Drift	±10%						
Input	Input Voltage	48Vdc±5% (positive and negative electrodes not identified)						
	Input Current	0.45A max.						
	Efficiency	≥78%	≥83%		≥86%		≥90%	
Protections	Short Circuit	Auto-recovery						
	Over Load	The output current decreases when the actual voltage exceeds the output voltage and automatically recovers on the load-lighten condition.						
	No Load	The driver not easily damaged						
	Anti-reverse	Positive and negative electrodes not identified						
Environment Descriptions	Operating Temperature	-20℃ - +60℃						
	Operating Humidity	20-90%RH (without condensation)						
	Storage Temperature/ Humidity	-30℃ - +80℃ (6 months in Class I environment); 10-90%RH (without 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, Hi-pot tester: TH9201B, flicker tester (flicker-free coefficient test) 60N-01, etc.							
Remark	The above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load and input voltage of 48Vdc without any special remarks.							
Additional Remarks	1. Please disconnect input AC power supply before adjusting the output current via the DIP switch. 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. 3. Pay attention to keep the driver away from water, moisture and ESD during application. 4. In order to avoid any abnormalities during driver's application, pay attention that the PCB be insulated from the metal parts of casing.							

■ Product Characteristic Curves

Output Current & Voltage Curve



Efficiency Curve

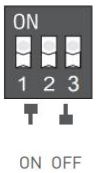


■ Dimming Operation Instructions

Product Terminals

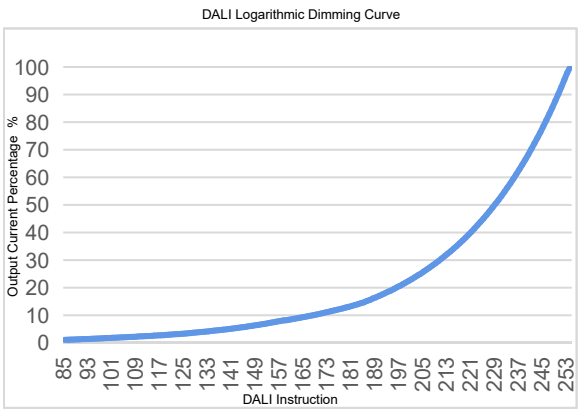
INPUT		OUTPUT	
48VIN	DC input terminal (positive and negative electrodes not identified)	LED+	Positive electrode output of LED driver
48VIN	DC input terminal (positive and negative electrodes not identified)		
DA1	DALI 1 dimming input terminal	LED-	Negative electrode output of LED driver
DA2	DALI 2 dimming input terminal		

Current adjustable via a built-in DIP switch

Current Adjustment Reference Table				
Output Current	1	2	3	DIP Switch Diagram
400mA	OFF	OFF	OFF	
350mA	OFF	OFF	ON	
300mA	OFF	ON	OFF	
250mA	OFF	ON	ON	
	ON	OFF	OFF	
200mA	ON	OFF	ON	
150mA	ON	ON	OFF	
100mA	ON	ON	ON	

DALI dimming operations

- Default setting: 100% brightness
- Connect DALI signal to DA1 and DA2 terminals
- DALI protocol includes 16 groups and 64 IP addresses
- Minimum dimming depth: 1% (Iout)



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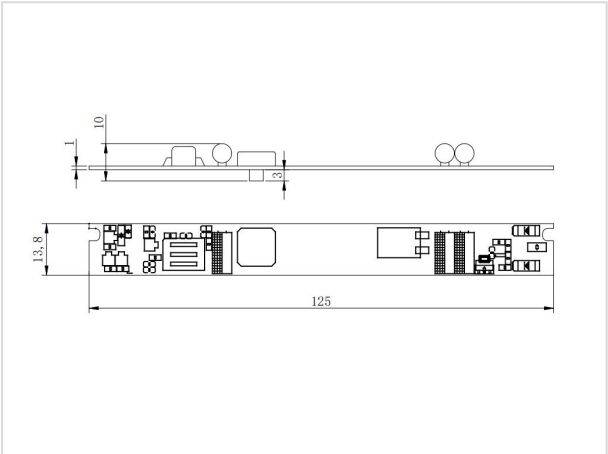
■ Structure & Dimensions (unit: mm)

Appearance dimension



■ Packaging Specifications

Model	LF-BAD016-0400-42B
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

■ 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.

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