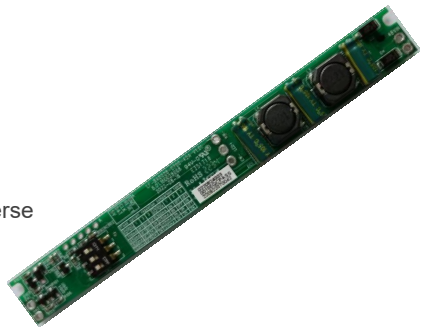
Features

- Constant current output and current adjustable via DIP switch
- Complies with DALI 2.0 standardized protocol
- Flicker free during the whole process of dimming
- Dimming depth: 1%
- CCT change: 2700-6500K
- All-round protections: short circuit, over load, no load and anti-reverse connection
- Compact size
- 5-year warranty (please refer to the warranty condition)



Applications

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

Descriptions

LF-BAD028-0700-42A is a DC/DC constant current DALI tunable white LED driver. Its rated input voltage is 48Vdc±5% and output current can be adjusted via DIP switch from 350 to 700mA with every 50mA as a step. It features compact size, built-in design (inside the magnetic track box), high efficiency and flicker-free effect.

Product Model

LF - BAD 028 - 0700 - 42A

- 42: maximum output voltage: 42V; A: DT8
- 0700: maximum output current: 700mA
- 028: rated power: 28W
- BAD: CC DALI LED driver

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■ Electrical Characteristics

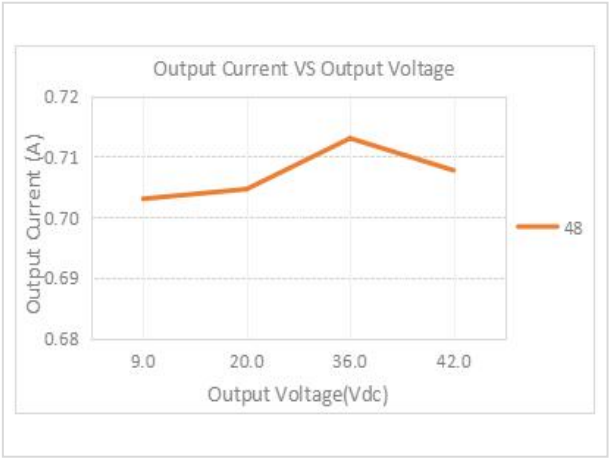
Model		LF-BAD028-0700-42A							
Environment Descriptions	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
	Output Voltage	9-42V (Vin-Vo ≥8V)							
	Output Power	29.4W max.							
	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, modulation depth ≤1% Complies with flicker-free standard: IEEE Std 1789-2015							
	Current Tolerance	±5%							
	Temperature Drift	±10%							
Input	Input Voltage	48Vdc±5% (positive or negative electrode not necessary to be identified)							
	Input Current	0.75A max.							
	Efficiency	≥90%		≥91%		≥92%		≥93%	
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.							
	Anti-reverse Connection	The positive or negative electrode of input terminal are not necessary to be 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.								
Testing Remarks	If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load and input voltage of 48Vdc.								

Electrical Characteristics

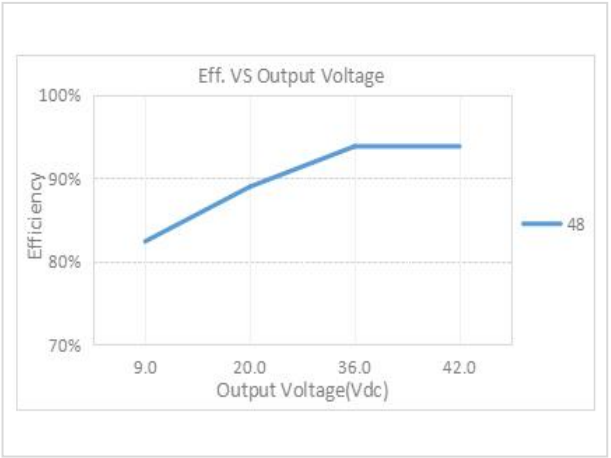
Testing Remarks	1. Please disconnect input AC power supply before adjusting the output current via the DIP switch; make sure to use the DIP switch on the condition that the driver is unpowered. 2. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 3. Pay attention to keeping 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



Product Terminal & DIP Switch Definitions

Product Terminals

INPUT		OUTPUT	
48VIN	DC input terminal (positive or negative electrode not necessary to be identified)	CW-	Negative electrode output of cold light
48VIN	DC input terminal (positive or negative electrode not necessary to be identified)	LED+	Positive electrode output of LED driver
DA1	DALI 1 dimming input terminal	WW-	Negative electrode output of warm light
DA2	DALI 2 dimming input terminal		

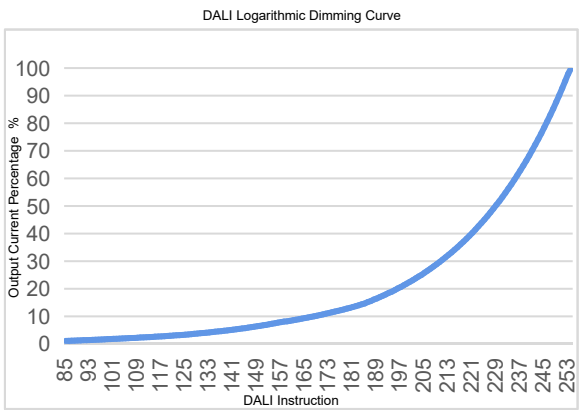
Product Terminal & DIP Switch Definitions

Product DIP Switch (current adjustable via built-in DIP switch)

Current Adjustment Reference Table				
Output Current	1	2	3	DIP Switch Diagram
700mA	OFF	OFF	OFF	
650mA	OFF	OFF	ON	
600mA	OFF	ON	OFF	
550mA	OFF	ON	ON	
500mA	ON	OFF	OFF	
450mA	ON	OFF	ON	
400mA	ON	ON	OFF	
350mA	ON	ON	ON	

DALI Dimming Operation Instructions

- 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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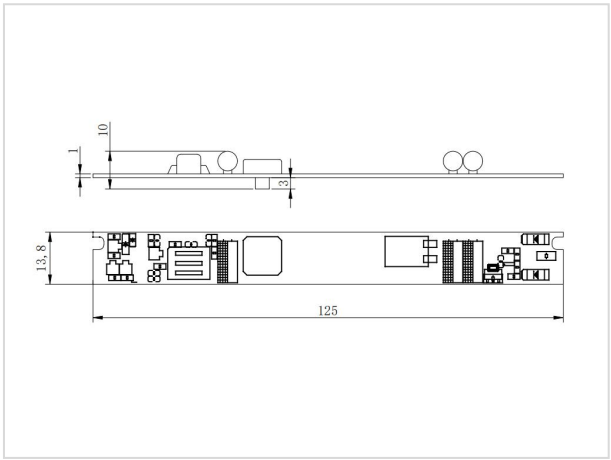
■ Structure & Dimensions (unit: mm)

Appearance dimension (positions of components are subject to the ones of autual object)



■ Packaging Specifications

Model	LF-BAD028-0700-42A
Carton Size	385*285*210 mm (L*W*H)
Quantity	20 pcs/layer; 11 layers/ctn; 220 pcs/ctn
Weight	0.011 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.