

una Sinkocca

🀔 🚇 张 CE 💩 📖

Features

- Triac dimmable
- · Constant current output and output current adjustable via DIP switch
- Built-in active PFC function
- · Flicker free; compact size
- All-round protections: over voltage protection/short circuit protection
- IP20
- · Suitable for Class II light fixtures (light fixture not connected to the ground)
- 5-year warranty (please refer to the warranty condition)

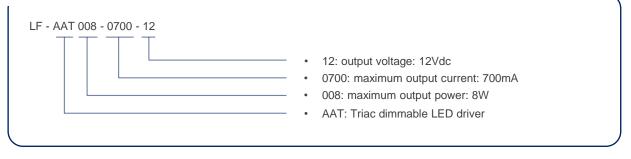
Applications

Panel light · down light · spot light

Descriptions

LF-AAT008-0700-12 is an 8W constant current Triac dimmable LED driver. Its rated input voltage ranges from 220 to 240Vac and output current is adjustable from 350 to 700mA via DIP switch with every 50mA as a step.

Product Model



Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China. Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China. Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

Electrical Characteristics

Liffud 萊福德

Model		LF-AAT008-0700-12							
		Adjustable via DIP switch							
	Output Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
	Output Voltage	2-12Vdc							
Output	Output Power	8W max.							
	Current Tolerance	±8% ±5%							
	Start-up Time	≤3S@230Vac full load							
	Temperature Drift	≤1mA/°C							
	Input Voltage	220-240V	ac (voltage	e limit: 198	-253Vac)				
	DC Input Voltage	176-280Vdc							
	Input Current	0.2A max							
Input	PF	≥0.85					≥0.9		
	Efficiency	≥66%					≥68%		
	THD	≤15%@230Vac full load							
Inrush Current ≤10A/200uS@230Vac									
	Surge	≤1kV@L-N							
Protections	Open Circuit	Open-circuit voltage <25Vdc							
	Short Circuit	Auto-recovery							
	Operating Temperature	-20℃ - +45℃							
	Operating Humidity	20-95%RH (without condensation)							
Environment Descriptions	Storage Temperature/ Humidity	-30 $^\circ\!{\rm C}$ - +60 $^\circ\!{\rm C}$ (6 months in Class I environment); 10-95%RH (without condensation)							
	Atmospheric Pressure	86-106kPa							
Certifications ENEC, CE, RCM, CCC									
Safety & EMC	Withstanding Voltage	I/P-O/P: 3.75kVac@5mA@60S							
	Safety Standards	CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015; CCC: GB19510.1-2009, GB19510.14-2009							
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2							
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5, 6, 11 CCC: GB/T17626.2, 3, 4, 5, 6, 11							

Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China. Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China. Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

Electrical Characteristics

	IP Rating	IP20		
Other RoHS		RoHS 2.0 (EU) 2015/863		
	Warranty Condition	5 years (Tc ≤79°C)		
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 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 230Vac.			
Additional Remarks	 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. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must comform to UL94-V0 flammability standard or above. 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. It is suggested that user use a slotted screwdriver or a Philips to adjust the output current of LED driver, otherwise the potentiometer may be damaged. (the screwdriver should have good insulation at the head, body and handle, and the screwdriver with a 2mm head is recommended as well. What's more, please pay attention that the intensity of torque not exceed 0.5KN.m). When using the LED driver, please pay attention that the total output power not exceed the maximum rated output power, otherwise the warranty service of LED driver would be failed. The head, body and lend a aluminum substrates must >2kVac. 			

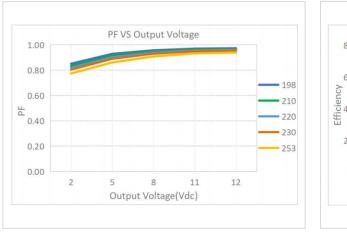
Lifud Technology Co., Ltd.

Recommended Dimmers Matching LF-AAT008-0700-12

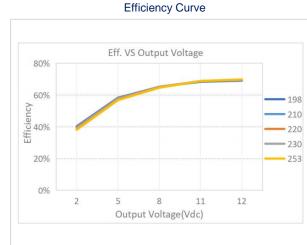
Leading-edge Dimmers	Trailing-edge Dimmers	
BULL: G07D101D	GIRA: 030700	
CLIPSAL: 32E45LM	LUTRON SYSTEM: LQSE-4A-D	
S1-K	S1-K	

Remark: please test whether your dimmer matches this driver before a batch order.

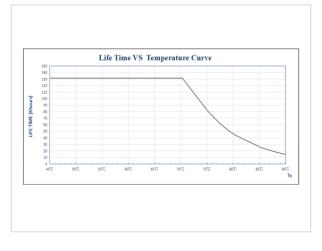
Product Characteristic Curves







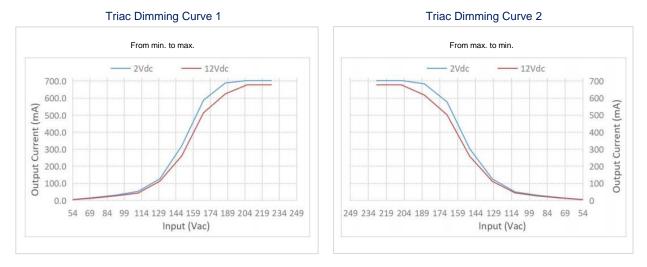
Lifetime Curve



Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China. Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China. Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

Product Characteristic Curves



Remark: input: 230Vac; output: 2Vdc/700mA, output: 12Vdc/700mA (this data is measured by Lifud Triac dimmer and the charts are for reference only)

Product Terminal & DIP Switch Definitions

Product terminals

	INPUT	OUTPUT		
AC-L Input terminal of AC live wire		LED+	Positive electrode output of LED driver	
AC-N Input terminal of AC neutral wire		LED-	Negative electrode output of LED driver	

Product DIP Switch

Parameter	MIN	TYP	MAX	Remark
Adjustable Output Current via built-in DIP Switch	350mA	-	700mA	The total output power should NOT exceed 8W

Lifud Technology Co., Ltd.

Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China. Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China. Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

Product Terminal & DIP Switch Definitions

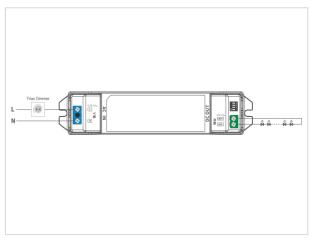
Product DIP Switch

Liffud 萊福德

Current Adjustment Reference Table				
Output Current	1	2	3	4
700mA	ON	ON	ON	ON
650mA	OFF	ON	ON	ON
600mA	ON	ON	ON	OFF
550mA	OFF	ON	ON	OFF
500mA	ON	ON	OFF	OFF
450mA	OFF	ON	OFF	OFF
400mA	ON	OFF	OFF	OFF
350mA	OFF	OFF	OFF	OFF

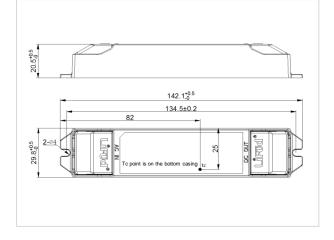
Dimming Operation Instruction





Structure & Dimensions (unit: mm)

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-AAT008-0700-12	142.1*29.8*20.5 mm (+0.5mm)	134.5 mm (\pm 0.2mm)	4 mm



Packaging Specifications

Model	LF-AAT008-0700-12		
Carton Size	385*285*210 mm (L*W*H)		
Quantity	14 pcs/layer; 9 layers/ctn; 126 pcs/ctn		
Weight	0.076 kg/pc; 9.5 kg/ctn		

Lifud Technology Co., Ltd. Production Base I (HQ): Building B, Kutto Industrial Park, NO.26 Xinhe Road, Bao'an District, Shenzhen, China. Production Base II: No.4, Block 2, Tengfei Road, Shigao Economic Development Zone, Tianfu New Area, Sichuan, China. Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

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.