

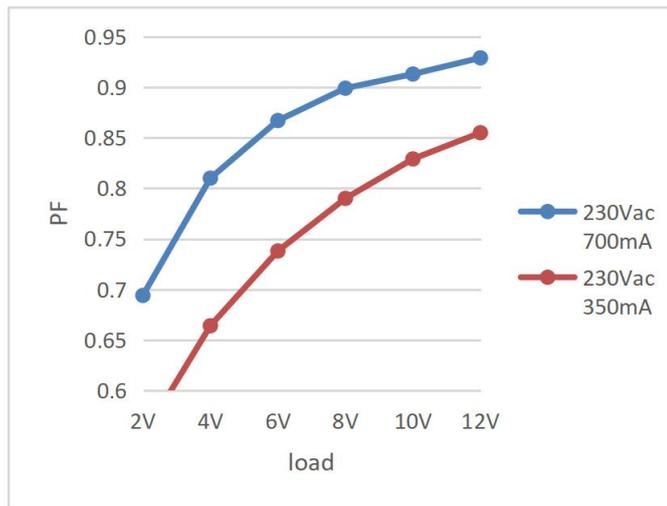
Electrical Characteristics

Model		LF-AAD008-0700-12								
Output	Output Voltage	2-12V								
	Output Current	Output current is adjustable via DIP switch, please refer to DIP switch table								
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4, Modulation Depth≤1% (Meet with flicker free standard: IEEE Std 1789-2015)								
	Ripple Current	<10% (rated current)				<5% (rated current)				
	Current Tolerance	±5%								
	Temperature Drift	±5%								
	Start-up Time	<1S@230Vac								
Input	Input Voltage	220-240Vac (limit: 198-264Vac)								
	DC Input Voltage	180-280Vdc								
	Input Frequency	47Hz-63Hz								
	Input Current	0.1A Max.								
	Power Factor	≥0.85		≥0.90		≥0.91		≥0.92		
		THD ≤15% @230Vac (DC12V full load)								
	Efficiency	≥65%		≥73%		≥75%		≥77%		
		Inrush Current ≤19A & 1.5uS @230Vac (max)								
	Load Quantity Carried by the Circuit Breaker	Circuit Breaker Model	B10		C10		B16		C16	
		Quantity (pcs)	66		66		106		106	
	Surge Protection	L-N: 1KV								
	Leakage Current	≤0.7mA								
	Standby Power Consumption	≤0.5W (when the DALI signal is off)								
Protection Characteristics	Open Circuit Protection	<35V								
	Short Circuit Protection	Hiccup mode (auto-recovery)								

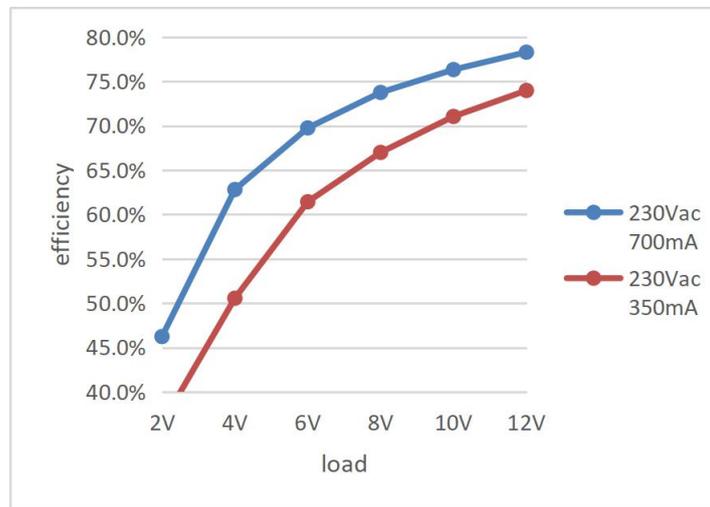
Environment Description	Operating Temperature	-20℃~+45℃
	Operating Humidity	20-90%RH (no condensation)
	Storage Temperature/Humidity	-30℃~+ 80℃ (six months under class I environment); 10-90%RH (no condensation)
	Atmospheric Pressure	86KPa~106KPa
Safety & Electromagnetic Compatibility	Certifications	TUV-ENEC, CE, CB, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75KV, 5mA, 60S
	Insulation Resistance	I/P-O/P: >100MΩ @ 500Vdc
	Safety Standards	ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017, EN 62384: 2016/A1: 2009; CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015; SAA: AS 61347.2-13: 2018; CB: IEC 61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016; CCC: GB19510.1-2009, GB19510.14-2009
	EMI	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1KV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1KV), 6, 11
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5, 6, 11 CCC: GB/T17626.2, 3, 4, 5, 6, 11
Others	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 yrs (TC≤77.5℃)
	DALI Standard	IEC 62386-101 102 207: DALI 2.0
Remarks	<ol style="list-style-type: none"> 1. It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connecting to electricity. 2. Please disconnect the AC input before adjusting the output current via the DIP switch. 3. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94-V0 flammability standard or above. 4. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of the whole LED light fixture. 5. Unless otherwise stated, the parameters above are test results under these conditions: ambient temperature 25℃, humidity 50%, input voltage 230Vac and 100% load. 	

Product Characteristic Curves

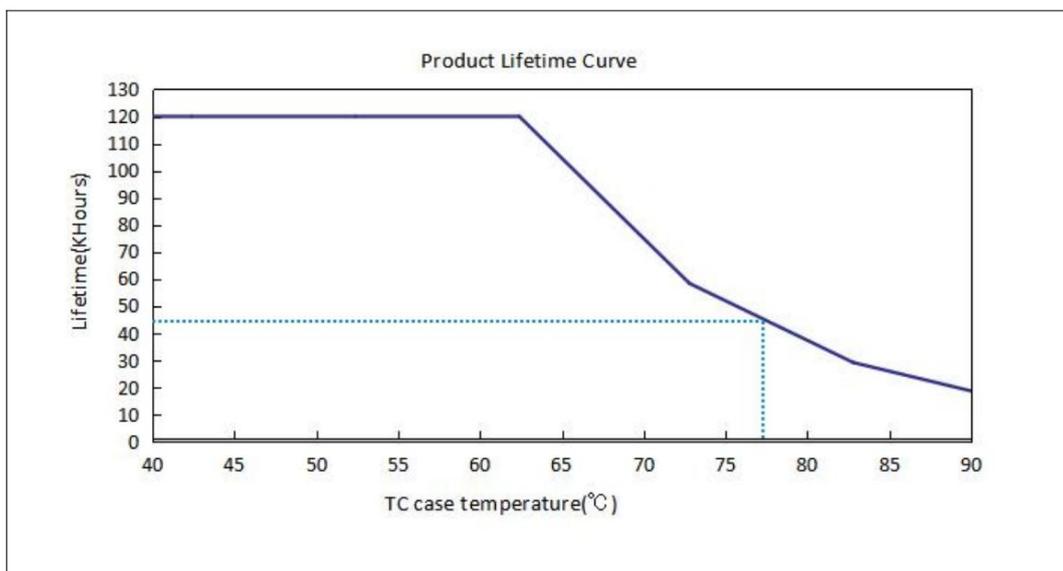
■ PF Curve



■ Efficiency Curve



■ Lifetime Curve



Instructions of Dimming Operation

■ Definition of Terminals

INPUT

DA1	Input terminal of DALI1 dimming
DA2	Input terminal of DALI2 dimming
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

OUTPUT

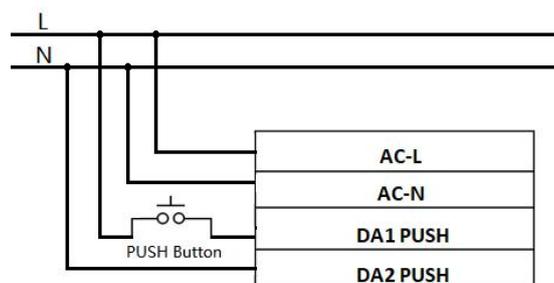
LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver

■ DIP Switch Table

Vo DC	I rated (CC)	1	2	3
2-12V	700mA	OFF	OFF	OFF
2-12V	650mA	OFF	OFF	ON
2-12V	600mA	OFF	ON	OFF
2-12V	550mA	OFF	ON	ON
2-12V	500mA	ON	OFF	OFF
2-12V	450mA	ON	OFF	ON
2-12V	400mA	ON	ON	OFF
2-12V	350mA	ON	ON	ON

Remark: Except the settings mentioned in the table above, other DIP switch settings are default to be the maximum current 700mA.

■ Wiring Instruction of the Push Dimming



⚠ Remark: Before using PUSH dimming function, please connect AC-L/AC-N to electricity FIRST, then connect the PUSH terminal to electricity. Otherwise the PUSH terminal will be burned.

■ Operation Instructions of Push Dimming

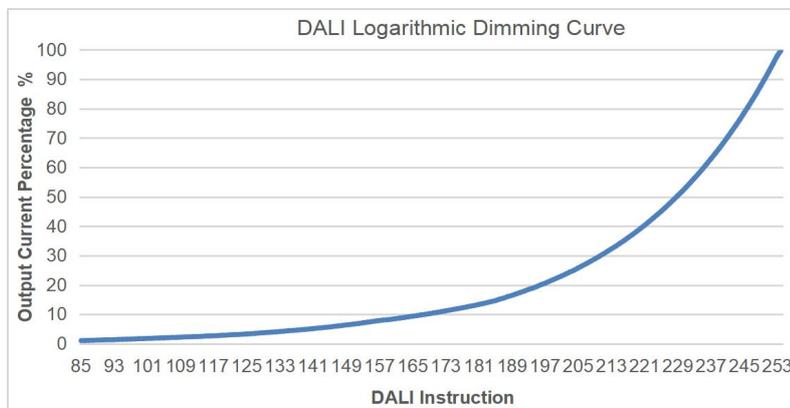
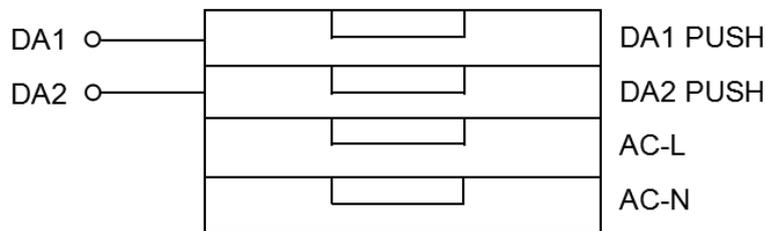
Operation	Operation Time	Function
Instant Push	0.1 sec - 0.5 sec	Light on / off
Long Push	0.6 sec - 9 sec	Dim up / down
Reset Push	> 9 sec	Reset to the 50% brightness

The push operation won't cause any variation if it's less than 0.1 sec.

- Connect the push button in series between the AC-L and the DA1 terminals. Connect the AC-N and DA2 terminals directly.
- The minimum dimming depth of push dimming is 1% (lout).
- The push dimming mode has memory function in case of power failure. When the power supply is restored, the light will return to the exact status before power failure.
- The maximum wire length between the push button and the farthest LED driver is 135 meters. Wire diameter: 16-22AWG.
- In the DALI dimming and push dimming modes, the maximum quantity of the LED drivers connected in parallel is 64 pieces.

■ Operation Instructions of DALI Dimming

- Factory default setting is of 100% brightness.
- Connect the DALI signal to the DA1 and DA2 terminals.
- DALI protocol includes 16 groups and 64 IP addresses.
- The minimum dimming depth of the DALI dimming is 0.1% (lout).



⚠ The DALI dimming function and the push dimming function cannot be used at the same time, otherwise the DALI dimmer will be damaged.

Label

LIFUD LED Driver(LED控制装置) Model: LF-AAD008-0700-12 Preparation for input and output

Input: 220-240V~50/60Hz Max.0.1A tc:90°C
 U out: 35V== PF:>0.9C P rated:8.4W(Max) 17.5mm

For LED modules only www.lifud.com Made in China

For Australia and New Zealand, the marking label with (中国制造)

Output current and setting table

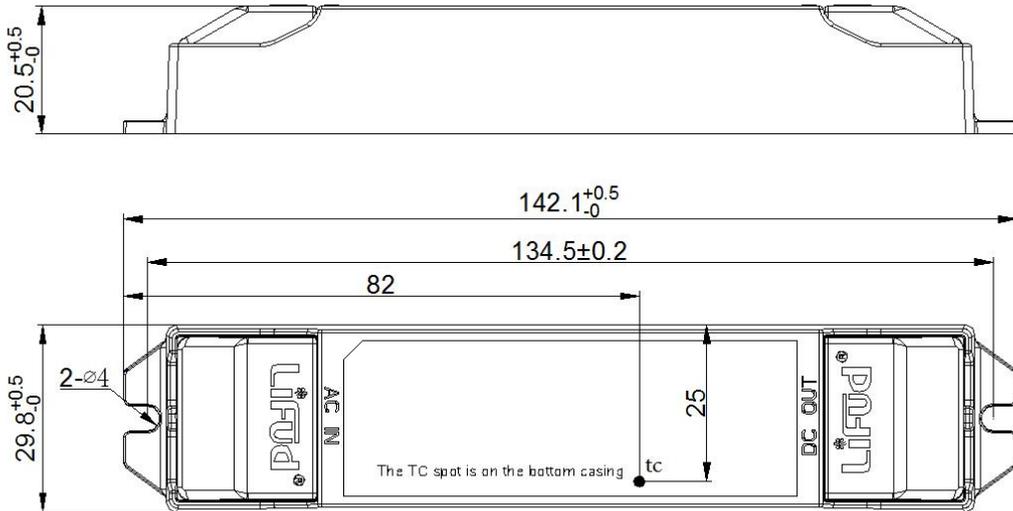
ta	Vo DC	I rated(CC)	1	2	3
45°C	2-12V	700mA	OFF	OFF	OFF
		650mA	OFF	OFF	ON
		600mA	OFF	ON	OFF
		550mA	OFF	ON	ON
		500mA	ON	OFF	OFF
		450mA	ON	OFF	ON
		400mA	ON	ON	OFF
		350mA	ON	ON	ON

0.75-1.5 □
Dimmable
0.1%-100%

ON
1 2 3
OUTPUT
LED+
LED-
0.5-1.0 □

SELV 25 TUV CE

Structure & Dimensions (Unit: mm)



Packaging Specifications

Model	LF-AAD008-0700-12
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 9 layers/ctn; 126 pcs/ctn
Weights	65g/pc; 9kg/ctn

Transportation & Storage

■ Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

■ Storage

- Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.

