

Product Description

LF-AAA008-0700-12 is an 8W constant current flicker free LED driver. It has 0-10V/PWM/Rx dimming functions. The input voltage range is 220-240Vac. The output current can be adjusted via the DIP switch from 350mA to 700mA, in steps of 50mA.

Features

- IP20
- Suitable for Class II light fixtures
- Constant current output and the output current can be adjusted via the DIP switch
- Built-in active PFC function
- Standby power consumption <0.5W
- 0-10//PWM/Rx dimming
- 5-year warranty (Please refer to the warranty condition.)

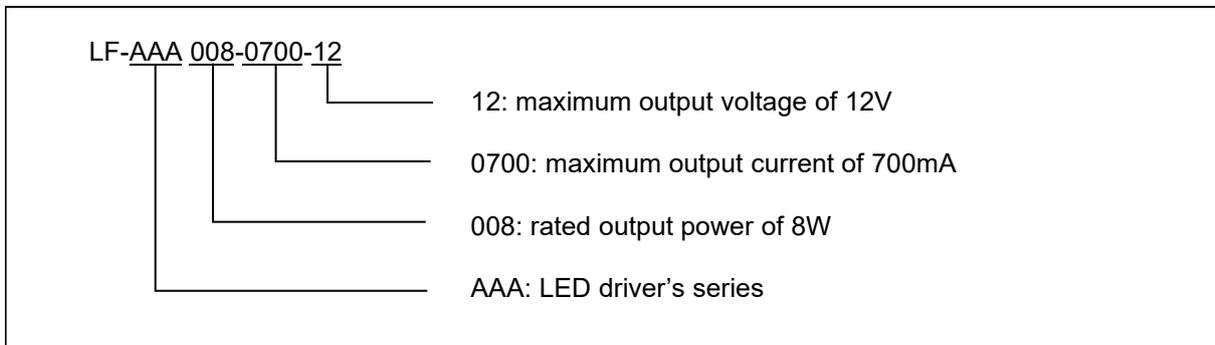


Applications

- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting



Product Naming



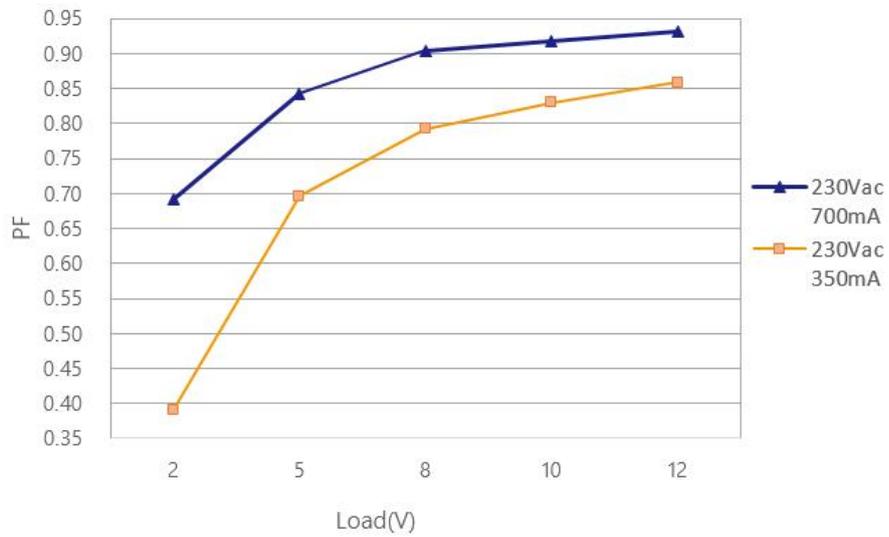
Electrical Characteristics

Model		LF-AAA008-0700-12								
Output	Output Voltage	2-12V	2-12V	2-12V	2-12V	2-12V	2-12V	2-12V	2-12V	
	Output Current	Adjustable current via the DIP switch, please refer to the DIP Switch Table								
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
	Flicker Index	IEC-Pst ≤ 1 , CIE SVM ≤ 0.9 , Modulation Depth $\leq 1\%$ Conforms to the flicker free standard (IEEE Std 1789-2015)								
	Ripple Current	$< 10\%$ (rated current)								
	Current Tolerance	$\pm 5\%$								
	Temperature Drift	$\pm 10\%$								
Start-up Time	$< 1S@230Vac$									
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)								
	DC Input Voltage	180-280Vdc								
	Input Frequency	47Hz-63Hz								
	Input Current	0.1A Max								
	Power Factor	≥ 0.70		≥ 0.75		≥ 0.80		≥ 0.85		≥ 0.90
	THD	$< 15\%$ @230Vac (full load)								
	Efficiency	$\geq 65\%$	$\geq 66\%$	$\geq 67\%$	$\geq 68\%$	$\geq 69\%$	$\geq 70\%$	$\geq 71\%$	$\geq 73\%$	
	Inrush Current	$\leq 30A \& 350\mu S@230Vac$ (Max)								
	Load Quantity Carried by the Circuit Breaker	Circuit Breaker Model	B10		C10		B16		C16	
		Quantity (pcs)	40		40		65		65	
	Surge Protection	L-N: 1KV								
	Leakage Current	$\leq 0.7mA$								
Standby Power Consumption	$\leq 0.5W$ (When the DIM OFF signal is effective)									
Protections	Open Circuit	$< 25V$								
	Short Circuit	Constant current mode								
Environment Descriptions	Working Temperature	$-20^{\circ}C \sim +45^{\circ}C$								
	Working Humidity	20-90%RH (no condensation)								
	Storage Temperature/Humidity	$-30^{\circ}C \sim + 80^{\circ}C$ (six months under class I environment);								
		10-90%RH (no condensation)								
Atmospheric Pressure	86KPa~106KPa									

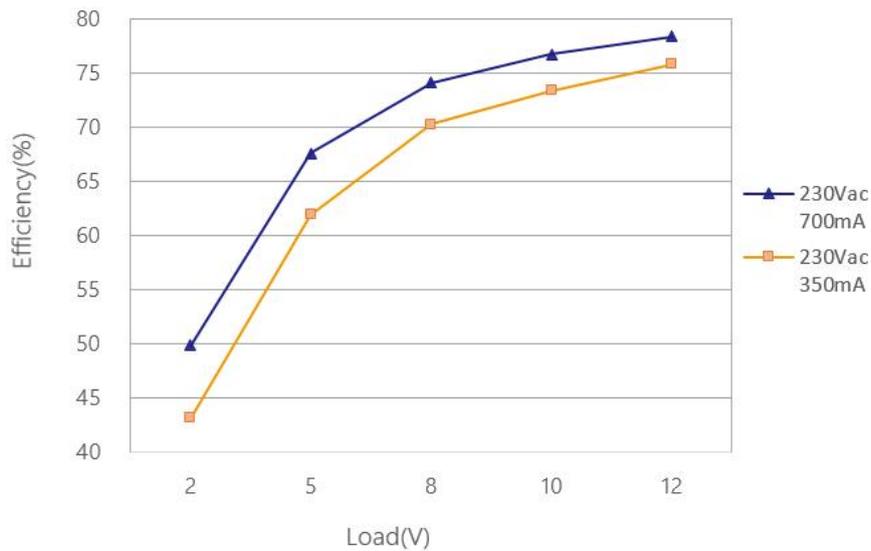
Safety & Electromagnetic Compatibility	Certifications	TUV-ENEC, CCC, RCM, CE, CB
	Withstanding Voltage	I/P-O/P (LED): 3.75KVac, O/P(LED)-O/P(DIM): 500Vac, I/P-O/P(DIM): 500Vac
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017, EN 62384: 2016/A1: 2009 CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 RCM: 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: EN55015, EN61000-3-2, EN61000-3-3 CCC:GB/T17743, GB17625.1, GB17625.2
	EMS	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
Others	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty Condition	5 yrs (Tc≤74℃)
Remarks	<ol style="list-style-type: none"> 1. It is recommended that customer should install over voltage, under voltage and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connecting to electricity. 2. Please disconnect AC input before switching 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%, 100% load, maximum output current and input voltage 230Vac. 	

Product Characteristic Curves

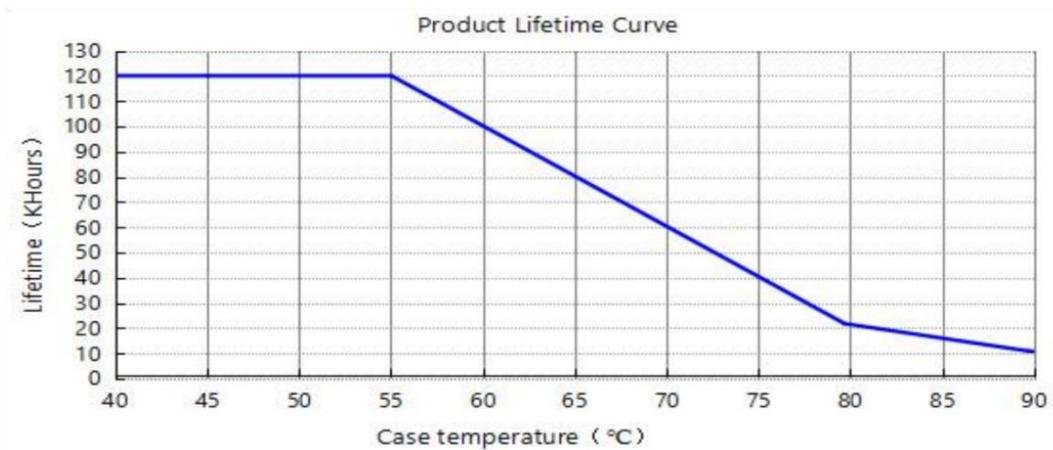
■ PF Curve



■ Efficiency Curve



■ Lifetime Curve



Instructions of Dimming Operation

■ Terminals

INPUT

DIM+	Positive electrode input of 0-10V/PWM/Rx dimming
DIM-	Negative electrode input of 0-10V/PWM/Rx dimming
AC-N	Input terminal of AC neutral wire
AC-L	Input terminal of AC live wire

OUTPUT

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

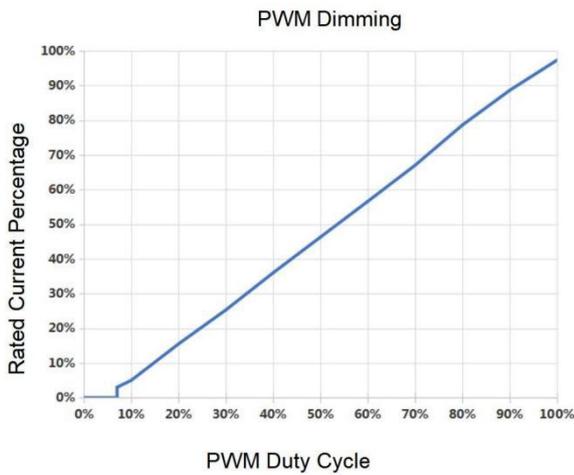
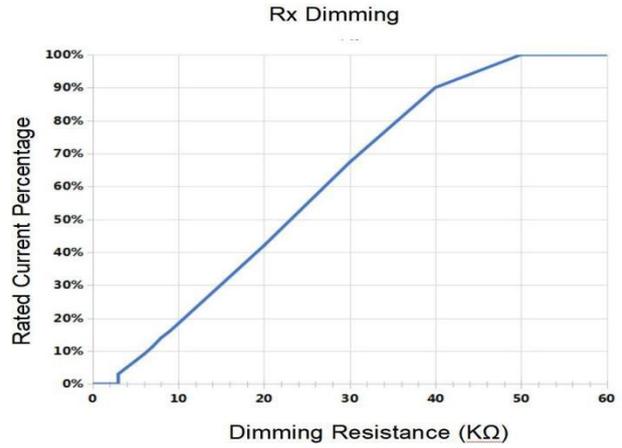
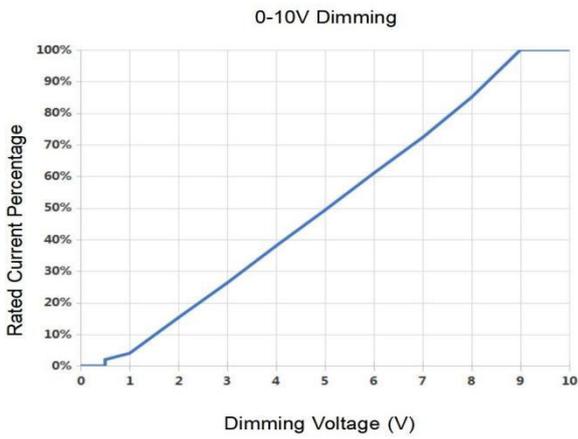
■ DIP Switch Table

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.

■ Operation Instructions of 0-10V/PWM/Rx Dimming

- Connect the 0-10V, PWM or Rx signals to the DIM terminal and the positive electrode connects to DIM+, and the negative electrode connects to DIM-.
- In 0-10V dimming mode, when the input voltage is less than 0.3V, the light will be turned off. When it's more than 0.5V, the light will be turned on. ($\pm 0.2V$ tolerance is acceptable.)
- The minimum dimming depth of 0-10V dimming can reach 0.2%.
- The dimming depth of PMW dimming can reach 0.2%.
- The dimming depth of Rx dimming can reach 0.2% (with a 50K Ω potentiometer).
- The pins of the DIM terminal without any signal connected: 100% rated output current.



Label

LIFUD[®] LED Driver(LED控制装置) Model: LF-AAA008-0700-12 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)

INPUT For LED modules only www.lifud.com Made in China
 For Australia and New Zealand, the marking label with “”

DIM+ ON
 DIM- OFF

AC-N ON
 AC-L OFF

0.75-1.5 Dimmable
 0.1%-100%

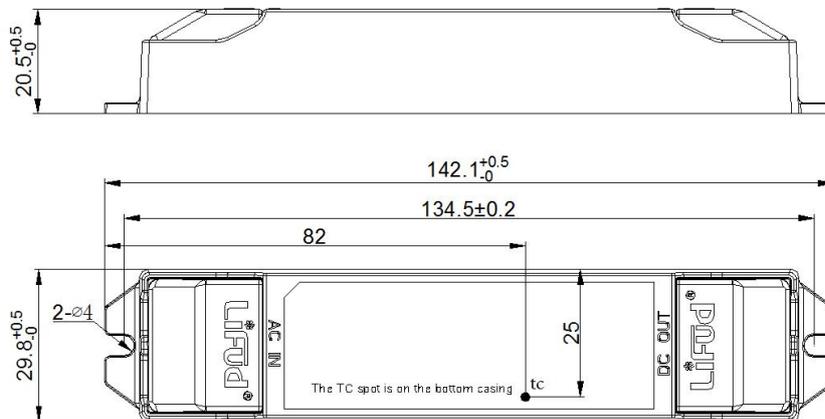
ta	Vo DC	I rated(C)	1	2	3
45°C	2-12V	70mA	OFF	OFF	OFF
		60mA	OFF	OFF	ON
		50mA	OFF	ON	OFF
		40mA	ON	OFF	OFF
		40mA	ON	OFF	ON
		35mA	ON	ON	ON

(中国制造)

OUTPUT 1 2 3
 LED+
 LED-
 0.5-1.0

SELV 25 TUV CE

Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-AAA008-0700-12
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 9 layers/ctn; 126 pcs/ctn
Weights	0.064 kg/pc; 8.5 kg±5%/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 the 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LED Power Supplies](#) category:

Click to view products by [Lifud Technology](#) manufacturer:

Other Similar products are found below :

[PIFC-K250F](#) [PITB-K222A](#) [ALD-514012PJ134](#) [OECCDD02-350](#) [OECCDD02-700](#) [OECCDD02-300](#) [OECCDD02-450](#) [OECCDD02-600](#)
[ESS015W-1000-12](#) [ESS030W-1050-21](#) [SLM140W-1.05-130-ZA](#) [ESS015W-0700-18](#) [OTE 25/220-240/700 PC](#) [OT FIT 30/220-240/700 CS](#)
[CNB50W-1200-42-CAS](#) [87500757](#) [LCU 48V 75W DC-STR FO](#) [LC 45 W 500-1400 MA FLEXC SC EXC](#) [I-SELECT 2 PLUG 2000MA BL](#)
[LC 50/200-350/170 FLEXCC LP SNC3](#) [LCO 14/100-500/38 O4A NF C EXC3](#) [LCA 60W 900-1750MA ONE4ALL C PRE](#) [LC 8/180/44 FIXC](#)
[SR SNC2](#) [LC 19/200-350/54 FLEXC LP SNC4](#) [BXDR-PS-75BS-E116D-01-A](#) [LC 30/500/54 FIXC SR SNC2](#) [LCA 60W 24V ONE4ALL SC](#)
[PRE SP](#) [LC 60W 75-330MA 310V FLEXC NF H16 EXC4](#) [LC 8/180/42 FIXC PC SR SNC2](#) [LC 10/350/29 FIXC SR SNC2](#) [LC 50/100-](#)
[400/140 PO4A NF H16 PRE3](#) [LC 25/600/42 FIXC SRL ADV2](#) [LCO 24/200-1050/39 NF C ADV3](#) [LC 25W 350-1050MA FLEXC SR EXC](#)
[LC 35W 24 ONE4ALL IP PRE](#) [BXDR-PS-25BS-E107D-01-A](#) [LC 17W 250-700MA FLEXC SR EXC](#) [LC 14W 700MA FIXC PC SR SNC2](#)
[LC 200W 24V SC SNC](#) [LC 65W 200-350MA 210V FLEXC LP SNC4](#) [LC 60/1400/43 FIXC SR SNC2](#) [LC 75W 250-400MA 220V O4A LP](#)
[ADV 4880](#) [PWM-60-24DA2](#) [PWM-90-48DA2](#) [8538](#) [LC 165/400-700/320 FLEXC LP SNC4](#) [LCO 40W 200-1050MA 64V O4A NF C EXC3](#)
[LCI 150/250-1050/300 PD NF H28 PRE4](#) [LCO 60/200-1050/100 O4A NF C EXC3](#)