Product Description

LF-AAA008-0350-42 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 100mA to 350mA, 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

LF-AAA 008-0350-42

- 42: maximum output voltage of 42V
- 0350: maximum output current of 350mA
- 008: rated output power of 8W
- AAA: LED driver's series

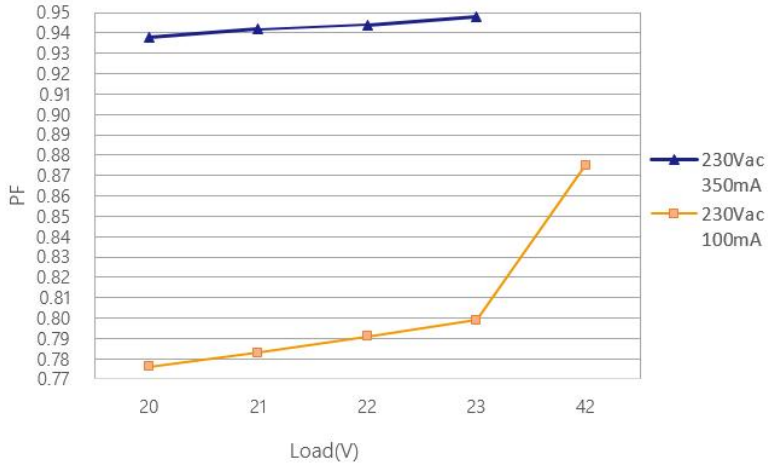
Electrical Characteristics

Model		LF-AAA008-0350-42					
Output	Output Voltage	9-42V	9-42V	9-42V	9-32V	9-27V	9-24V
	Output Current	Adjustable current via the DIP switch, please refer to the DIP Switch Table					
		100mA	150mA	200mA	250mA	300mA	350mA
	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, Modulation Depth ≤1% Conforms to the flicker free standard (IEEE Std 1789-2015)					
	Ripple Current	<10% (rated current)					
	Current Tolerance	±10%	±5% (20-42V), ±10% (9-20V)				
	Temperature Drift	±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		≥0.85			≥0.90
	THD	<15% @230Vac (full load)					
	Efficiency	≥57%	≥60%	≥65%	≥69%	≥71%	≥73%
	Inrush Current	≤30A & 350uS @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	≤0.7mA					
	Standby Power Consumption	≤0.5W (When the DIM OFF signal is effective)					
Protections	Open Circuit	<59V					
	Short Circuit	Constant current mode					
Environment Descriptions	Working Temperature	-20℃~+45℃					
	Working 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					

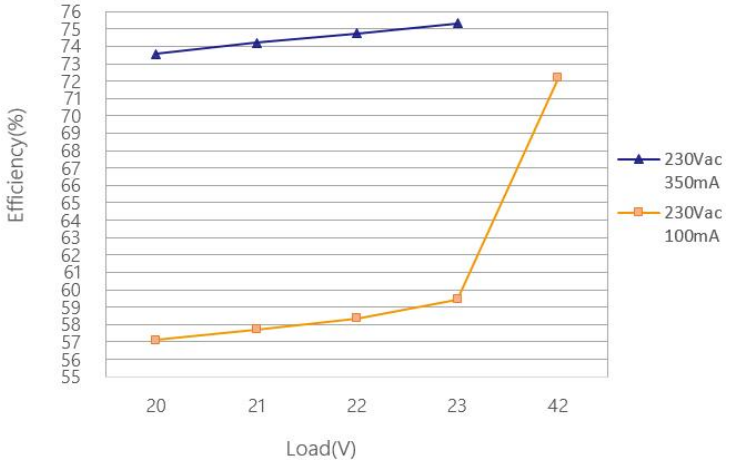
Safety & Electromagnetic Compatibility	Certifications	TUV-ENEC, CCC, RCM, CE, CB
	Withstanding Voltage	I/P-O/P (LED): 3.75KVac, O/P(LED)-O/P(DIM): 500Vac, I/P-O/P(DIM): 500Vac
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017, EN 62384: 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≤77.5℃)
Remarks	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

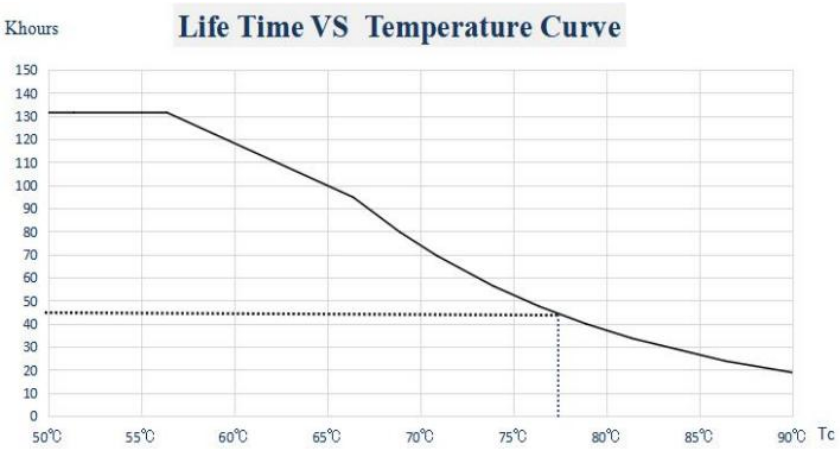
■ PF Curve



■ 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

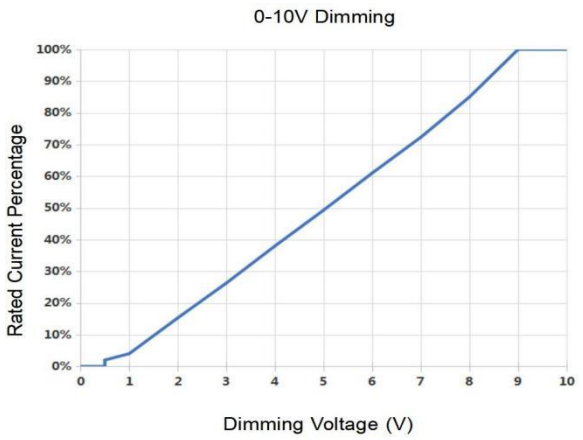
■ DIP Switch Table

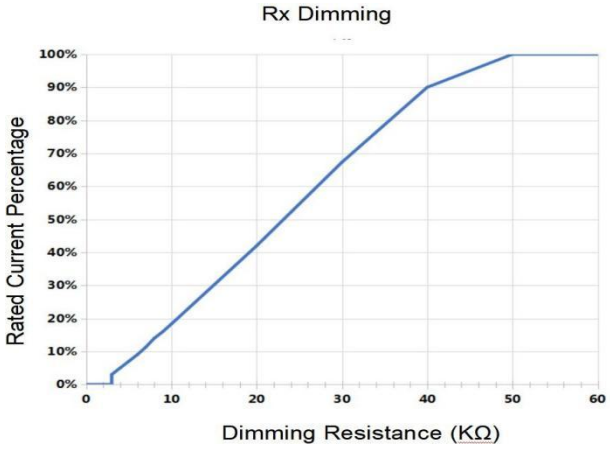
Vo DC	I rated (CC)	1	2	3
9-24V	350mA	OFF	OFF	OFF
9-27V	300mA	OFF	OFF	ON
9-32V	250mA	OFF	ON	OFF
9-42V	200mA	OFF	ON	ON
9-42V	150mA	ON	OFF	OFF
9-42V	100mA	ON	OFF	ON

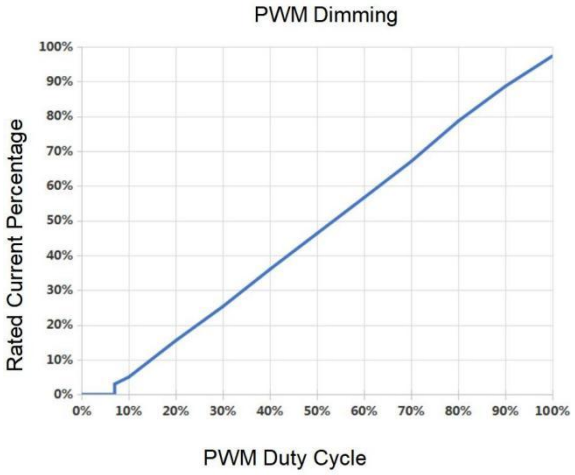
Remark: Except the settings mentioned in the table above, other DIP switch settings are default to be the maximum current 350mA.

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

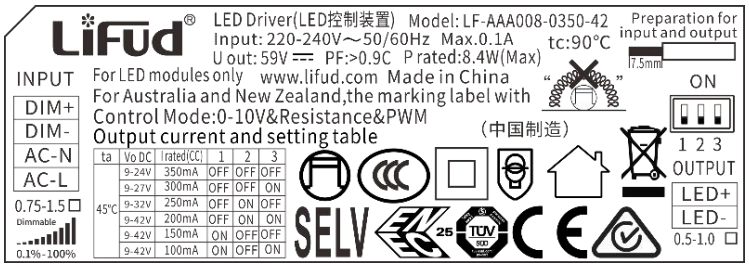
- Connect the 0-10V, PWM or Rx signals to the DIM terminal and the positive electrode connects to DIM+,and the negative electrode connects to DIM-.
- In 0-10V dimming mode, when the input voltage is less than 0.3V, the light will be turned off. When it's more than 0.5V, the light will be turned on. (±0.2V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



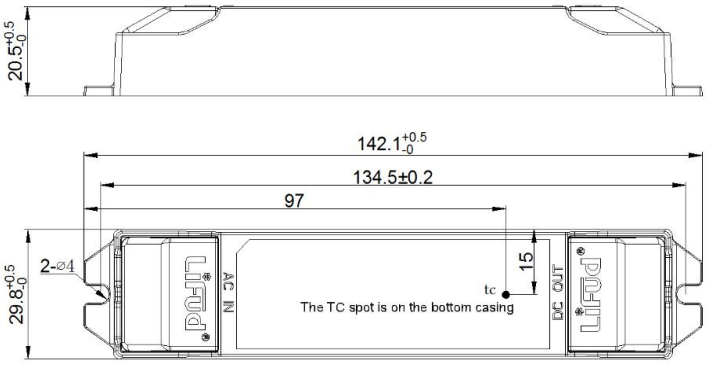




Label



Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-AAA008-0350-42
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 ELEMENT 35/220...240/900 G3 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