Features

- Metal casing design
- High performance, high efficiency and high PF
- Suitable for Class I light fixtures
- 5-yr warranty (please refer to the warranty condition)

Applications

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

Descriptions

LF-FMR080YS is a 60-80W non-isolated constant current LED driver with metal casing design. It has features of high PF and high efficiency. Its rated input voltage range is 220-240Vac and its output voltage range is 170-230Vdc. The output current can be adjusted via a DIP switch from 200 to 350mA, in steps of 50mA.

Product Model

LF-FMR 080 YS

- Y: conforms to certifications; S: serial number
- 080: maximum output power: 80W
- F: non-isolated design; MR: tri-proof light series

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

■ Electrical Characteristics

Model		LF-FMR080YS				
Output	Output Voltage	170-230Vdc				
	Output Current	Adjustable output current via a DIP switch				
		200mA	250mA	300mA	350mA	
	Flicker	≤ 0.5% (IEEE 1789)				
	CIE SVM	≤0.4				
	IEC-Pst	≤1				
	Current Tolerance	±5%				
	Temperature Drift	±10%				
	Startup Time	<0.5S				
Input	Input Voltage	220-240Vac (input voltage limit: 200-264Vac)				
	DC Input Voltage	180-264Vdc				
	Input Frequency	47Hz-63Hz				
	Input Current	0.5A max.				
	PF	≥0.9	≥0.92	≥0.94	≥0.95	
	THD	≤20%				
	Efficiency	≥91%	≥91%	≥92%	≥93%	
	Inrush Current	≤36A@180uS@230Vac				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quality	12	20	19	32
	Leakage Current	≤0.5mA				
	Standby Power Consumption	/				
Protections	Open Circuit	<450V				
	Short Circuit	Hiccup mode (auto-recovery)				
Environment Descriptions	Operating Temperature	-30℃ - +50℃				
	Operating Humidity	20-95%RH (without condensation)				
	Storage Temperature/ Humidity	-30℃ - 80℃ (6 months in Class II environment); 0-95%RH (without condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics

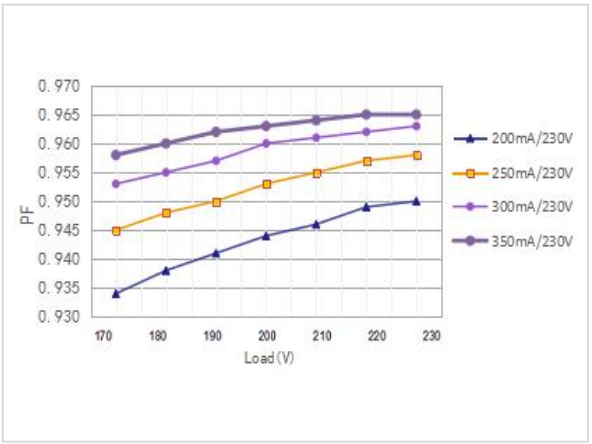
Safety and EMC	Certifications	ENEC, CE, CB, CCC, RCM, SAA and EL
	Withstanding Voltage	I/P-PG: 1.5kV 5mA 60S
	Insulation Resistance	I/P-FG O/P-FG: >100MΩ@500Vdc
	Safety Standards	ENEC: EN61347-1:2015, EN61347-2-13: 2014/A1: 2017, EN62384 2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN61347-1: 2015, EN62493: 2015 CB: IEC61347-1: 2015, IEC61347-2-3: 2014, IEC 61347-2-13: 2014/AMD1: 2016 RCM: AS 61347.2-13: 2018 EL: IEC61347-2-13: 2014 Annex J 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, L/N-PG: 2kV), 6, 11 CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV, L/N-PG: 2kV), 6, 11
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 yrs (Tc≤75℃)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	

■ Electrical Characteristics

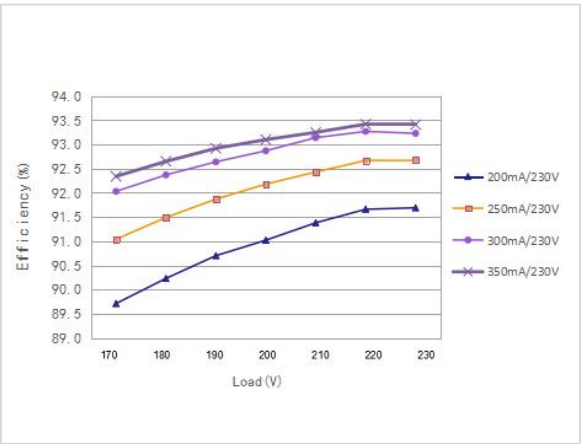
Remarks	1. It is recommended that client install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories in the whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. The PC shade, casing and plug for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 5. The above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load and input voltage of 230Vac/50Hz without any special remarks.

■ Product Characteristic Curves

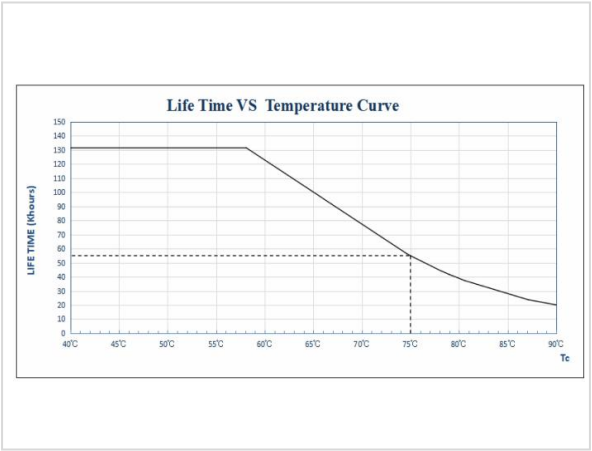
PF Curve



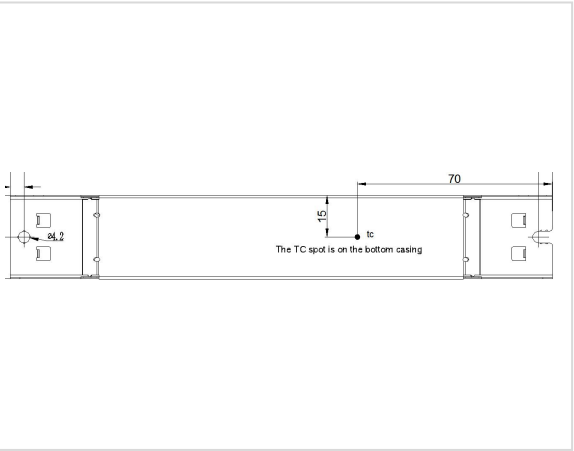
Efficiency Curve



Lifetime Curve



Tc Spot Testing Diagram



■ Definitions of Product Terminals

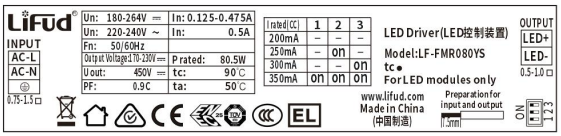
INPUT	
AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire
⏚	Grounding wire

OUTPUT	
LED+	Positive Electrode Output of LED Driver
LED-	Negative Electrode Output of LED Driver

■ Definitions of Product DIP

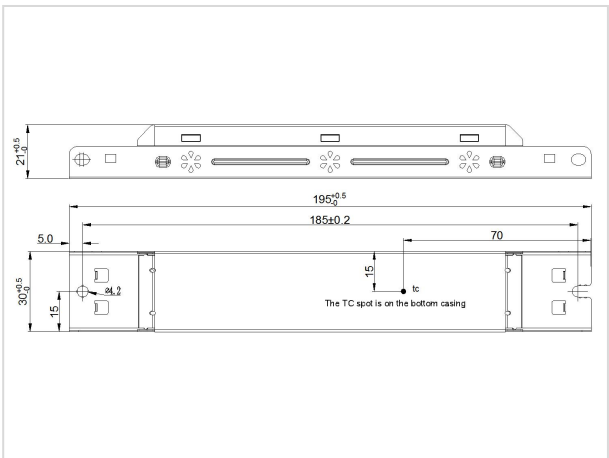
I rated (CC)	1	2	3
200mA	OFF	OFF	OFF
250mA	OFF	ON	OFF
300mA	OFF	OFF	ON
350mA	ON	ON	ON

■ Label



■ Structures and Dimensions

Model	LED Driver's Casing Dimension (L×W×H)	Distance Between 2 Positioning Holes	Diameter of Positioning Holes
LF-FMR080YS	195×30×21mm	185mm	4.2mm



■ Packaging Specifications

Model	LF-FMR080YS
Carton Size	385×285×210mm (L×W×H)
Quantity	8 pcs/layer；6 layers/ctn；48 pcs/ctn
Weight	0.160 kg/pc; 7.98 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.