



Applications

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

Descriptions

LF-FMR080YS is a 80.5W non-isolated constant current LED driver with metal casing design. 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.

Electrical Characteristics

Ν	lodel			LF-FMR080	YS		
Output Voltage		170-230V					
	Output Current	Adjustable output current via a DIP switch (optional)					
	Output Current	200mA	250m	A	300mA	350mA	
	Ripple Current (<100Hz)		·	·			
Output	Flicker Index	Complies with	IEEE Std 1789	-2015			
	CIE SVM	≤0.4					
	IEC-Pst	≤1					
	Current Tolerance	\pm 5%					
	Temperature Drift	±10%					
	Startup Time	<0.5S	<0.5S				
	Rated Input Voltage	220-240Vac					
	Input Voltage Range	200-264Vac					
	DC Input Voltage	180-264Vdc ^①					
	Input Frequency	0/50/60Hz					
	Input Current	0.5A max.					
	PF	≥0.95					
Input	THD	≤20%					
	Efficiency	≥93%					
	Inrush Current	≤36A ^②					
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16	
		Quantity (pcs)	12	20	19	32	
	Leakage Current	≤0.5mA					
	Standby Power Consumption	1					
	Open Circuit	<450V					
Protection	Short Circuit	Hiccup mode (auto-recovery)					
Characteristics	Overload	If the maximum load is exceeded by a defined internal limit, the LED Driver turns off the LED output. The driver will recover automatically once the overload is eliminated.					
	Operating Temperature	-30°C - +50°C					
	Operating Humidity	20-95%RH (without condensation)					
Environment Descriptions	Storage Temperature/ Humidity	-30°C - 80°C (6 months in Class I environment); 0-95%RH (without condensation)					
	Atmospheric Pressure	86-106kPa					

Lifud Technology Co., Ltd.

Electrical Characteristics

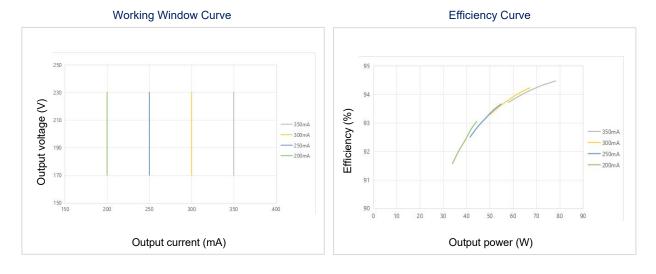
Surres	L-N	1kV	
Surge	L/N-PG	2kV	
	Certifications	EL, ENEC, CE, CB, UKCA, RCM, SAA, CCC	
	Withstand Voltage	I/P-PG: 1.5kV&5mA&60S	
	Insulation Resistance	I/P-FG O/P-FG: >100MΩ@500VDC	
Safety & EMC	Safety Standards	ENEC:EN 61347-2-13:2014/A1:2017,EN 61347-1:2015/A1:2021,EN IEC62384:2020 CE-LVD:EN 61347-2-13:2014/A1:2017, EN 61347-1:2015/A1:2021 CB:IEC61347-1:2015, IEC61347-1:2015/AMD1:2017, IEC61347-2-13:2014 IEC61347-2-13:2014/AMD1:2016 UKCA-LVD:EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017 EN 62493:2015 EL:EN IEC 61347-2-13 Annex J CCC:GB 19510.1-2009, GB 19510.14-2009	
	EMI	CE-EMC/RCM:EN55015, EN61000-3-2, EN61000-3-3 UKCA-EMC:EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000- 3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021 EL:EN IEC 61347-2-13 Annex J 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	
	IP Rating	IP20	
Other	RoHS	RoHS 2.0 (EU) 2015/863	
Parameters	Тс Мах	90°C	
	Warranty	5 years [®]	
Test 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, Hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.		
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, maximum output power and input voltage of 230Vac/50Hz.		

Lifud Technology Co., Ltd.

Electrical Characteristics

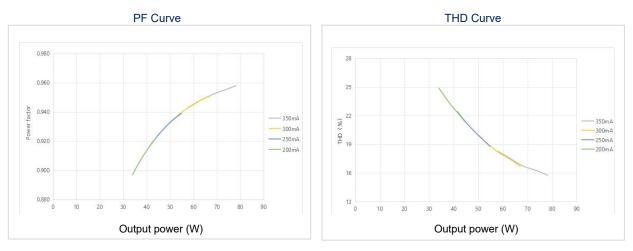
Remarks	 It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end device is one of the accessories of the whole light 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. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. It is well-advised that the withstanding voltage of LEDs and aluminum substrates >3kV. It is recommended to install double-pole switch at AC input terminal. If user uses the single-pole switch, make sure to connect it to wire L (live wire), otherwise the afterglow of light fixture would be incurred after the AC is disconnected. Because there is parasitic capacitance between LEDs and the PCBA, and the PCBA (the light fixture) is grounding, there will be a slight flicker at the moment of AC power on. It's normal for non-isolated products, if you want to avoid the slight flicker, please replace it with our isolated products. Note: DC input is only for emergency with the maximum using time of 90 mins gat08: 5 years@Tc≤75°C
---------	--

Product Characteristic Curves

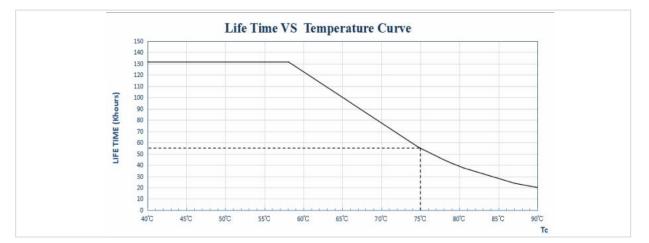


Lifud Technology Co., Ltd.

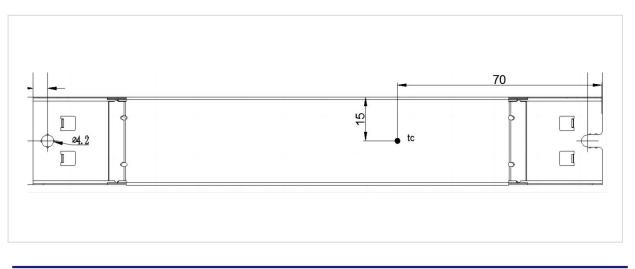
Product Characteristic Curves



Lifetime Curve







Lifud Technology Co., Ltd.

Product Definitions

Product Terminals

INPUT		
AC-L	Input terminal of AC live wire	
AC-N	Input terminal of AC neutral wire	
Ē	Earth wire	

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

Product DIP Switch

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

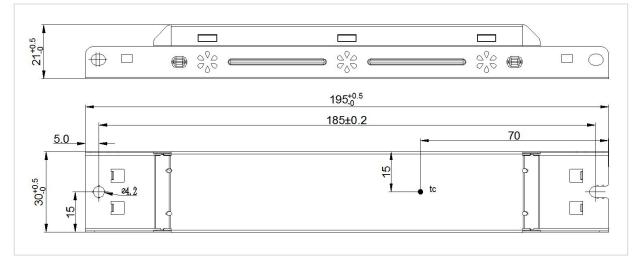
• Remark: "-": shift OFF. "*": default current. This chart is only for DIP switch version. DIP when power on is NOT allowed. Please disconnect the AC power before DIP.

Structure & Dimensions (unit: mm)

Product Definitions

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Holes
LF-FMR080YS	195*30*21mm (±0.5mm)	185mm (±0.2mm)	4.2mm

Structure Diagram



Lifud Technology Co., Ltd.

Packaging Specifications

Model	LF-FMR080YS	
Carton Size	385*285*210mm (L*W*H)	
Quantity	8 pcs/layer; 7 layers/ctn; 56 pcs/ctn	
Weight	0.160 kg \pm 5%/pc; 9.19 kg \pm 5%/ctn	

Transportation & 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.