

Features

- · Flicker free
- · High efficiency; high PF
- IP20
- · Suitable for Class I light fixtures
- · 5-year warranty (please refer to the warranty condition)





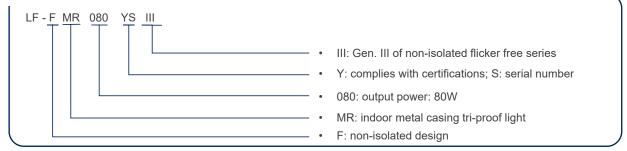
Applications

· Indoor office lighting · decorative lighting · commercial lighting

Descriptions

LF-FMR080YSIII is a 80W constant current LED driver. Its input voltage ranges from 220 to 240Vac and output current is adjustable from 200 to 550mA via DIP switch with every 50mA as a step. It is suitable for Class I light fixtures, including tri-proof light, linear light, etc.

Product Model





■ Electrical Characteristics

Model		LF-FMR080YSIII							
Output Voltage		54-230V			54-200V	54-177V	54-160V	54-145V	
	Output Current	Adjustable via DIP switch (optional)							
		200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA
	Ripple Current (<100Hz)	±5%							
Output	Flicker Index	Complies with IEEE Std 1789-2015							
Output	CIE SVM	≤0.4							
	IEC-Pst	≤1							
	Current Tolerance	$\pm 5\%$							
	Temperature Drift	±10%							
	Start-up Time	<0.5S	<0.58						
	Input Voltage	220-240\	220-240Vac						
	Input Voltage Range	198-264Vac							
	DC Input Voltage	180-264Vdc [®]							
	Input Frequency	0/50/60Hz							
	Input Current	0.55A max.							
Laurent	PF	≥0.95							
Input	THD	≤15%							
	Efficiency	≥94% ≥93%							
	Inrush Current	≤45A ^②							
	Loading Quantities of Circuit Breaker	Model	Е	310	C10		B16	C16	
		Quantity	(pcs) 1	3	21		21	35	
	Leakage Current	≤0.7mA							
Protection	Protection Open Circuit <250Vdc								
Characteristics Short Circuit Auto-recovery									
Environment Descriptions	Operating Temperature	-30°C - +60°C							
	Operating Humidity	20-95%RH (no condensation)							
	Storage Temperature/ Humidity	-30°C - +80°C (6 months in Class I environment); 10-95%RH (no condensation)							
	Atmospheric Pressure	86-106kPa							



■ Electrical Characteristics

	L-N	1KV	
Inrush Level	L/N-PG	2KV	
	Certifications	ENEC, CE, CB, UKCA, RCM, EL, CCC, EAC	
	Withstand Voltage	I/P-PG: 1.6kV&5mA&60S	
	Insulation Resistance	I/P-PG O/P-PG: >100MΩ@500Vdc	
Safety & EMC	Safety Standards	CB: IEC61347-1:2015, IEC61347-1:2015/AMD1:2017, IEC61347-2-13:2014, IEC61347-2-13:2014/AMD1:2016 CCC:GB 19510.1-2009, GB 19510.14-2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015/A1:2021 EL:EN IEC 61347-2-13 Annex J ENEC: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015/A1:2021,EN IEC62384 :2020 UKCA-LVD:EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017 EN 62493:2015	
	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	Tc Max	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.		

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■ Electrical Characteristics

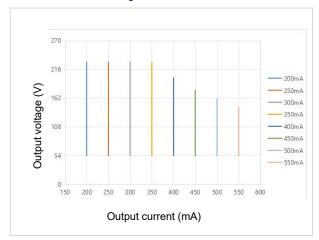
- 1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.
- 2. The LED driver used in combination with the end device is one of the accessories of the whole light 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.
- 3. The test conditions of the circuit breaker configuration quantity are the same as those of the
- 4. 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.
- 5. It is well-advised that the withstanding voltage of LEDs and aluminum substrates >3kV.

Additional Remarks

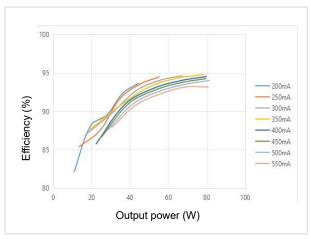
- 6. It is recommended to install double-pole switch at AC input terminal. If user uses the single-pole switch, make sure to connect it to wire L (live wire), otherwise the afterglow of light fixture would be incurred after the AC is disconnected.
- 7. There exists stray capacitance between LED light fixture and aluminum substrate, and the light fixture will have transient slight brightness the moment the mains is connected and the aluminum substrate is connected to the earth (the whole light fixture connected to the earth). This is of no abnormalities for a non-isolated LED driver. And if the above issue needs to be avoided, please replace the non-isolated with the isolated.
- 8. The light panel, fixed bracket and driver grounding should be secure. Note:
- ① DC input is only for emergency with the maximum using time of 90 mins
- 2 @180uS
- ③ 5 years@Tc≤81°C

Product Characteristic Curves

Working Window Curve



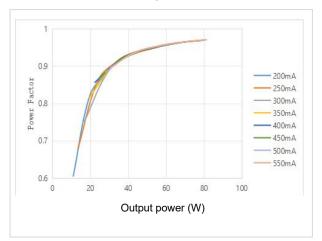
Efficiency Curve



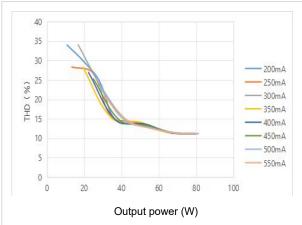


■ Product Characteristic Curves

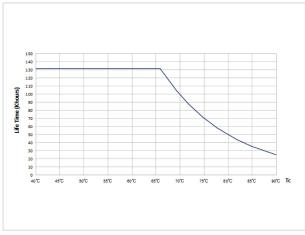
PF Curve



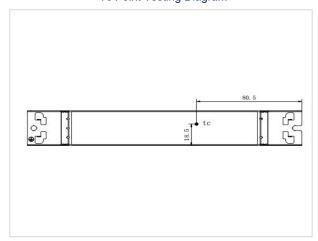
THD Curve



Lifetime Curve



Tc Point Testing Diagram



■ Product Definitions

Product Terminal

INPUT			
AC-L	AC live wire input		
AC-N	AC neutral wire input		
(a)	Earth wire		

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



■ Product Definitions

Product DIP Switch

I rated (CC)	1	2	3
200mA(54-230Vdc)	-	-	-
250mA(54-230Vdc)	-	-	ON
300mA(54-230Vdc)	-	ON	-
350mA(54-230Vdc)	-	ON	ON
400mA(54-200Vdc)	ON	-	-
450mA(54-177Vdc)	ON	-	ON
500mA(54-160Vdc)	ON	ON	-
*550mA(54-145Vdc)	ON	ON	ON

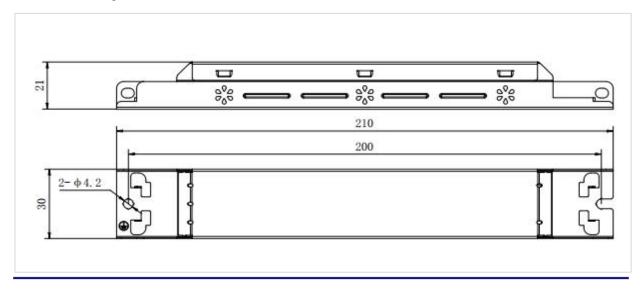
Remark: "-": shift OFF. "*": default current. DIP when power on is NOT allowed. Please disconnect the AC power before DIP.

■ Structure & Dimensions (unit: mm)

Product Dimensions

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning Hole (D)
LF-FMR080YSIII	210*30*21mm (±0.5mm)	200mm (±0.2mm)	4.2mm

Structure Diagram



Lifud Technology Co., Ltd.



■ Packaging Specifications

Model	LF-FMR080YSIII
Carton Size	385*285*210mm (L*W*H)
Quantity	9 pcs/layer; 7 layers/ctn; 63 pcs/ctn
Weight	0.15 kg±5% /pc; 10.02 kg±5%/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.