

LF-FMR060YSIII

FMR*YSIII non-SELV 1-driver with 4-output current | Constant Current - Non dimmable





Product family benefits

- Output current adjustable via DIP switch in 4 shifts
- Super high efficiency
- Linear metal casing with 21mm housing height
- Long lifetime and high reliability
- Flicker free
- Non-SELV output

Typical applications

- For linear light and tri-proof light
- For office, commercial, decorative and retail lighting

Product parameters

- Output current 200/250/300/350mA
- Output power 16-60W
- Input voltage 198-264Vac

- Output voltage 80-200Vdc
- Efficiency 92.5%

Product family features

- Low THD<15%@full load
- Rated input voltage: 220-240Vac
- Ta: -30℃~+60℃
- Ripple current<5%
- Suitable for Class I light fixtures
- 5 years guarantee

Electrical data

Input data		
Rated supply voltage	220 240V	
AC voltage range	198 264V	
Mains frequency	0/50/60Hz	
Input voltage DC	180 264V ¹⁾	
Power factor	≥0.96	
Efficiency in max. power	92.5% ²⁾	
THD	≤15%	
Input current	0.40A Max	
Inrush current	45A ³⁾	
Loading no. on circuit breaker 10 A (B)	10	
Loading no. on circuit breaker 10 A (C)	17	
Loading no. on circuit breaker 16 A (B)	17	
Loading no. on circuit breaker 16 A (C)	27	
Loading no. on circuit breaker 20 A (C)	33	
Loading no. on circuit breaker 25 A (C)	42	
Protective conductor current	≤0.35mA	
Output data		
Nominal output voltage	80 200V ⁴⁾	
Nominal output current	200/250/300/350mA ⁵⁾	
Default output current	350mA	
Current set	DIP switch (please see the DIP switch definition)	
Maximum output power	60W	
Nominal output power	1660W	
Output ripple current (100 Hz)	<5%	
Flicker	Comply with IEEE Std 1789-2015	
CIE SVM	≤0.4	
IEC-Pst	≤1	
Output current tolerance	±5%	
Temperature tolerance	±10%	
Starting time	<0.5S	
Safety		
Withstanding voltage	I/P-PG: 1.6kV&5mA&60S;	
Surge capability (L-N)	1kV	
Surge capability (L/N-Ground)	2kV	
Insulation resistance	I/P-PG O/P-PG: >100MΩ@500VDC	
Guarantee	5 years ⁶⁾	

1) DC input is only for emergency

2) @full load

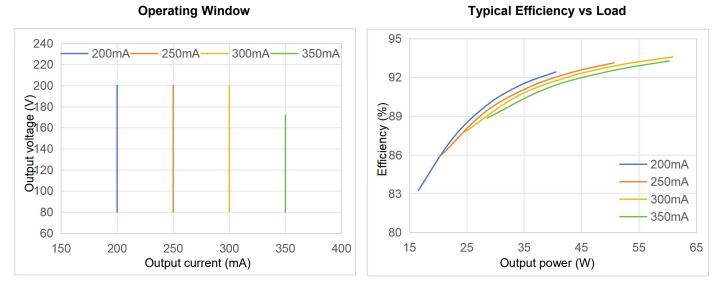
3) t =200µs

4) Please refer to the operating window about the relationship between output voltage and output current.

5) Fixed current version optional

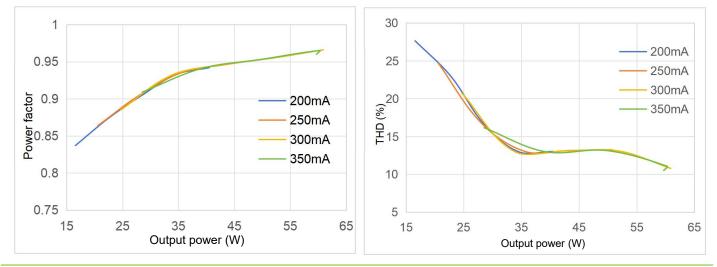
₆₎ 5 years @Tc≤ 84°C

Characteristic diagram

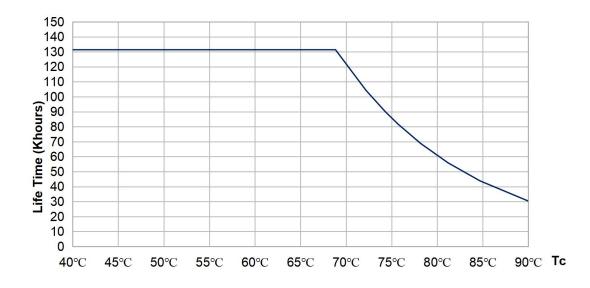


Typical Power Factor vs Load

Typical THD vs Load

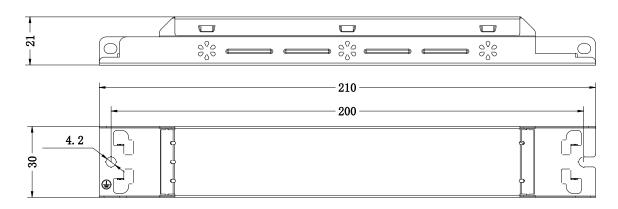


Lifespan



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Dimensions

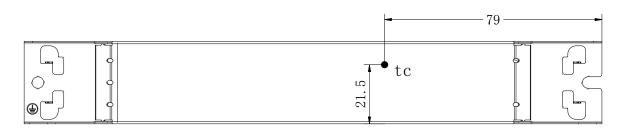


Mounting hole spacing, length	200.0mm	
Mounting hole diameter	4.2mm	
Product weight	137.0g	
Cable cross-section, input side	0.5 1.5 mm ²	
Cable cross-section, output side	0.5 1.5 mm ²	
Wire preparation length, input side	7 8mm	
Wire preparation length, output side	7 8mm	
Length	210.0mm	
Width	30.0mm	
Height	21.0mm	
Colors & materials		
Casing material	Color coated galvanized sheet	
Casing color	White	

Temperature & operating conditions

Ambient temperature range	-30 °C - +60 °C
Maximum temperature at Tc test point	90° C
Temperature range at storage	-30 $^\circ\!\mathrm{C}$ - +80 $^\circ\!\mathrm{C}$ (6 months in Class I environment)
Humidity range at storage	20-95%RH (no condensation)
Humidity during operation	20-90%RH
RoHS	RoHS 2.0 (EU) 2015/863

Tc test point



Note: this diagram is the front view and Tc point is on the front side of the driver.

Product Terminal

	Input		Output
AC-L	AC live wire input	LED+	Positive electrode output of LED driver
AC-N	AC neutral wire input	LED-	Negative electrode output of LED driver
	Earth wire		

DIP switch Terminal

Output current	Output voltage	DIP switch 1	DIP switch 2
200mA	80-200Vdc	-	-
250mA	80-200Vdc	-	ON
300mA	80-200Vdc	ON	-
*350mA	80-172Vdc	ON	ON

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

Capabilities

Dimmable	-
Over heating protection	-
Overload protection	-
Short-circuit protection	Automatic reversible
No-load protection	<250V
Suitable for fixtures with prot. class	1
Control interface	-
Number of channels	1 channel

Programming

Programmer	-
DALI Control Software	-
APP	-

Certificates & standards

Approval marks	ENEC, UKCA, CE, CB, EL, RCM, SAA, EAC, CCC
Standards	GB 19510.1-2009, GB 19510.14-2009
	IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493
	IEC/EN 62384
	IEC/EN 61347-2-13 Annex J
	AS 61347.1, AS 61347.2.13
	TP TC 004/2011+TP TC 020/2011
EMC	GB 17625.1-2022, GB/T 17743-2021
	EN 55015, EN 61547, EN 61000-3-2,3
Type of protection	IP20

Logistical Data

Product	Packaging unit	Dimensions (L*W*H)	Volume	Gross weight
	(Pieces/Unit)			
LF-FMR060YSIII	63	385mm*285mm*210mm	23.04 dm ³	9.21kg±5%

Test equipment & condition

	AC power source: CHROMA6530, digital power meter: CHROMA66205, oscilloscope: Tektronix
	DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber,
Test Equipment	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.

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.

Additional information

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. Configure the quantity of circuit breakers based on inrush current and time.

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.

Transportation & storage

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.

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.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release. Lifud Technology Co., Ltd. reserves the right to interpret any contents of this specification.