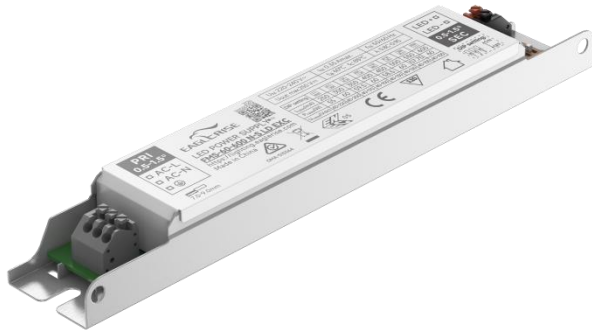


## 60W Constant Current-FMS Series



■ Approve



### Features

- Class I, Non-isolated, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OVP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: 90%(Typ.)
- Adjustable Output Current with dip-switch
- 5 years warranty
- IP20

### Applications

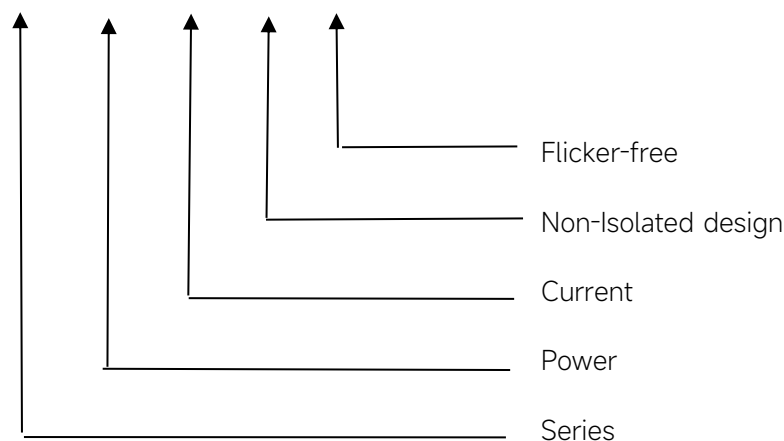
- Linear light

### ◆ Description

FMS-60-600 N-S LD EXC is a 60W constant current LED driver that operates from 198-264Vac input with 250 to 600mA output current. The output current is adjustable by DIP Switch. With it's dimensions from 190 x 30 x 21mm. It is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit, over voltage and over temperature.

### ◆ Model code

FMS-60-600 N-S LD EXC



## ◆ Specification

	Constant Current	250mA	300mA	...mA	600mA
Output	Voltage Range	40-220VDC			
	Unload voltage Max.(VDC)	250VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(<120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥90%@Full load ,220-240V			
	Input	Rated input voltage	220-240VAC		
Range of input voltage		198-264VAC			
Range of input DC voltage(VDC)		176-280VDC			
Frequency(Hz)		0/50/60 Hz			
Displacement factor		≥0.9			
Power Factor		≥0.95@Full load ,220-240V			
Input Current max		0.35A			
Start-up time		< 0.5S			
No Load Power		≤0.5W			
THD (Typ.)		<10% @Full load ,220-240V			
Protection	Over Voltage Protection	YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
	Over Temperature Protection	YES/Auto Resume Ta≥75° C, reducing the output current			
Environment	Operating Temperature	-25°C~+60°C			
	Humidity	20%-90%RH			
	Maximum case temperature(Tc)	85°C			
	Storage Temperature	-40°C~+85°C			
	Life time	>50,000h@Tc=85°C >100,000h@Tc=75°C			
	Ripple & Noise	≤20dB(A)@20cm			
Surface	Dimension	190 x 30 x 21(LXWXH)mm			
Standards	IEC61347- 1, IEC61347-2- 13; EN61347- 1, EN61347-2- 13; EN61347- 1, EN61347-2- 13, EN62384; GB/T17743, GB17625. 1, GB19510. 1, GB19510. 14; EN55015, EN61000-3-2, EN61000-3-3, EN61547				
Others	ErP	EU 2019/2020			
	RoHS	RoHS (2011/65/EU) (EU)2015/863			

Note	<p>1.All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature.</p> <p>2.Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF &amp; 47 uF parallel capacitor.</p> <p>3.Switch and dimmer are not recommended to connect between this product output and luminaries.</p>
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## ◆ Parameter

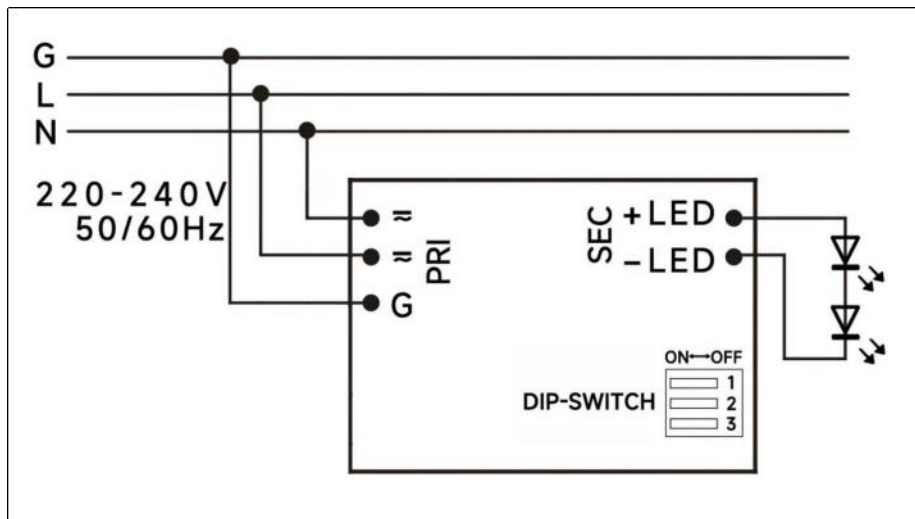
Number	Output				Switch position		
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	250mA	40-220	250	55W	--	--	--
2	300mA	40-200		60W	ON	--	--
3	350mA	40-170		59.5W	--	ON	--
4	400mA	40-150		60W	ON	ON	--
5	450mA	40-130		58.5W	--	--	ON
6	500mA	40-120		60W	ON	--	ON
7	550mA	40-105		57.75W	--	ON	ON
*8	600mA	40-100		60W	ON	ON	ON

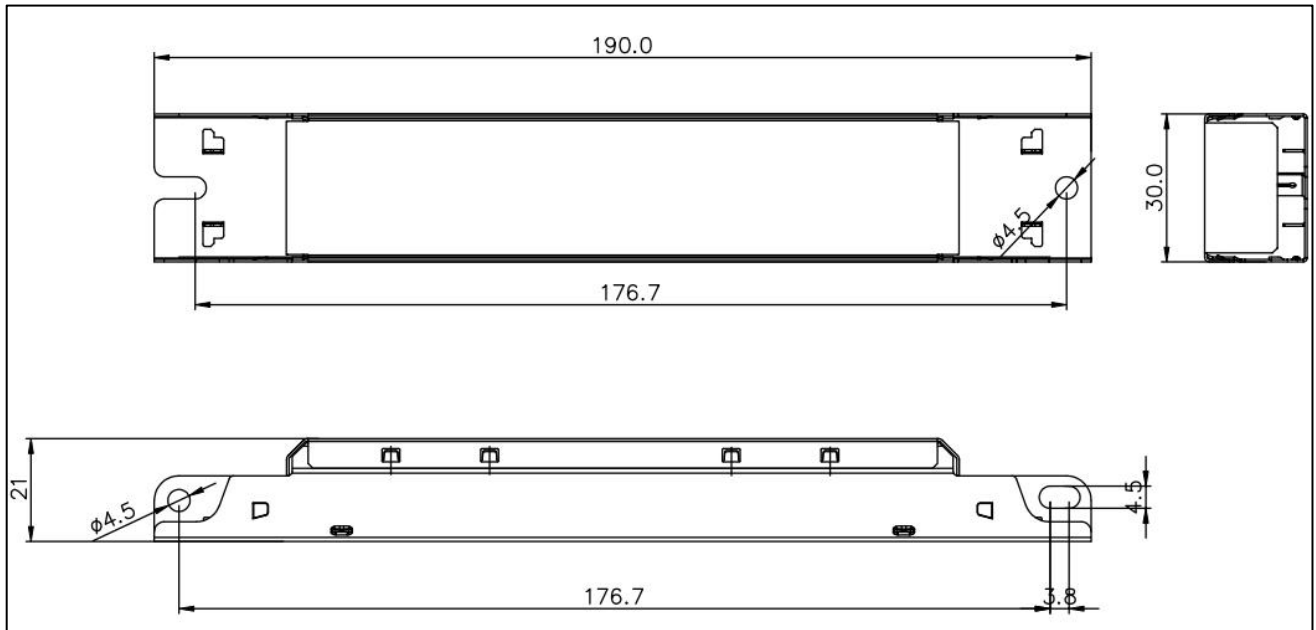
\* Factory default

## ◆ Circuit Breaker

I <sub>peak</sub>	T <sub>width</sub>	B10	B16	B20	C10	C16	C20
32.4A	240μs	10pcs	16pcs	20pcs	17pcs	27pcs	34pcs

## ◆ Wiring diagram

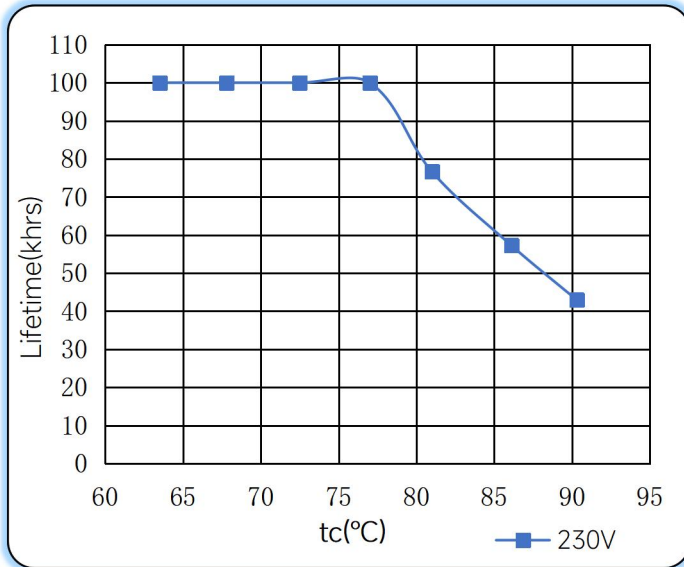


**◆ 2D diagram**

**◆ Wiring & Connections**

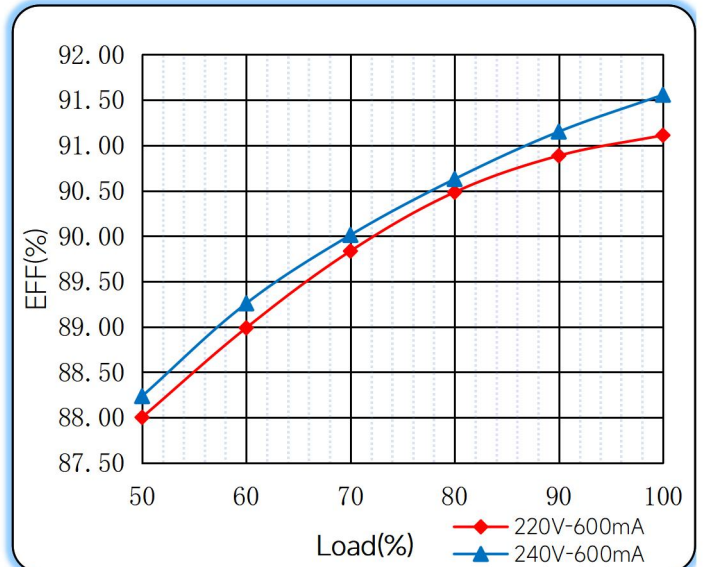
Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Curve for FMS-60-600 N-S LD EXC, $I_o=600mA$

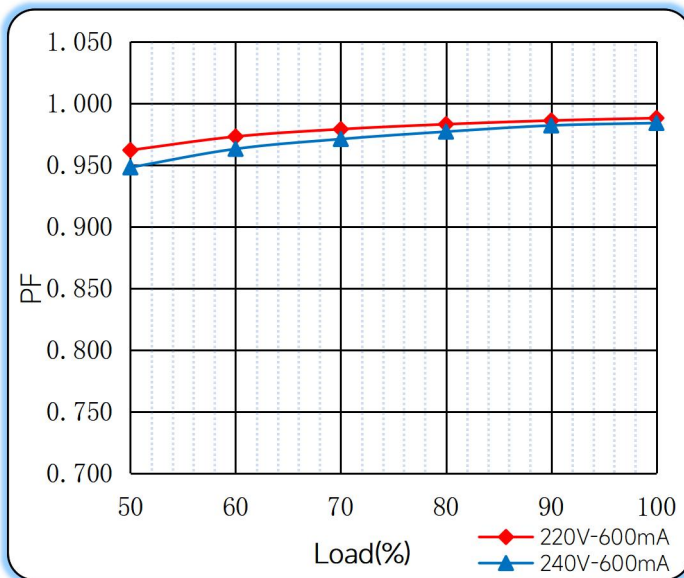
### Lifetime vs. Temperature Curve



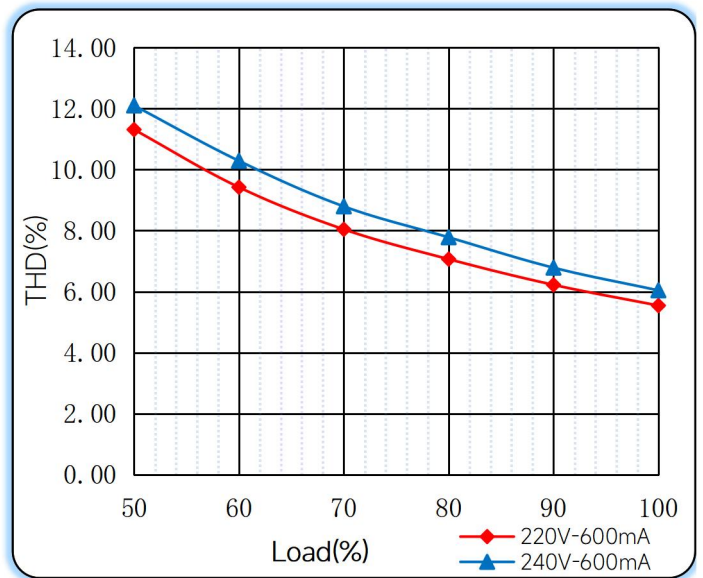
### Efficiency vs. Load



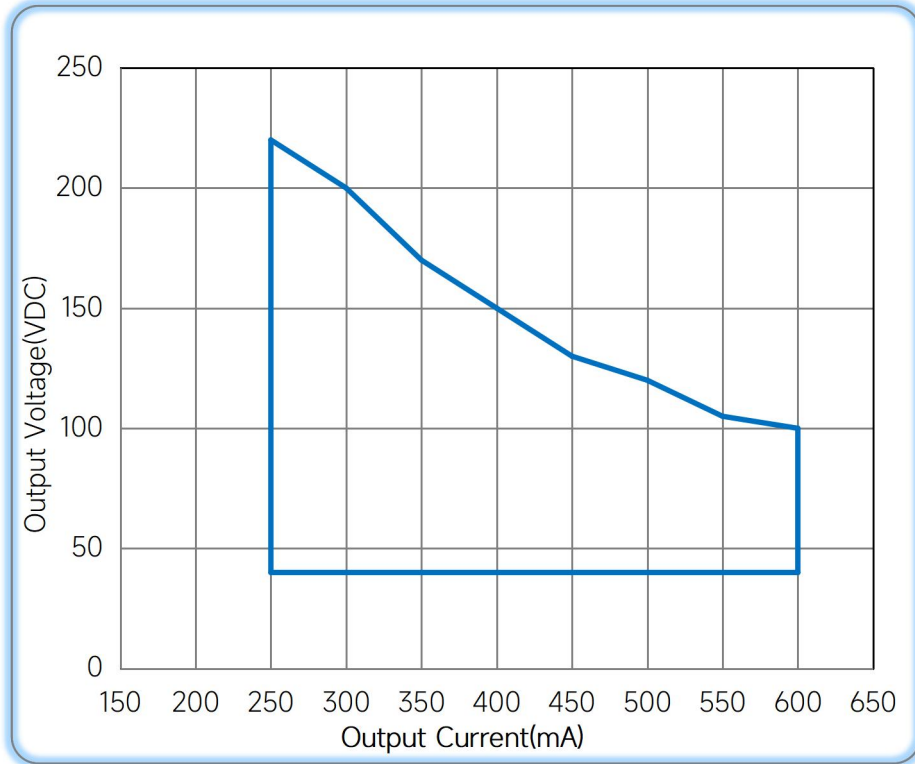
### Power Factor Characteristics



### THD vs. Load



◆ **Operating window**



— Operating window 100%

◆ **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/01/13
Specification		Updated	B	2023/05/24
Protection		Updated	C	2023/05/30

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Manual