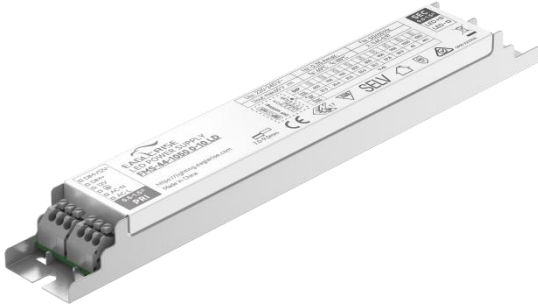


44W 0-10V Dimming power supply



■ Approve



Features

- Class I, SELV , Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.6C-0.95
- Efficiency : 88%(Typ.)
- Support 0-10V Dimming
- 5 years warranty
- IP20

Applications

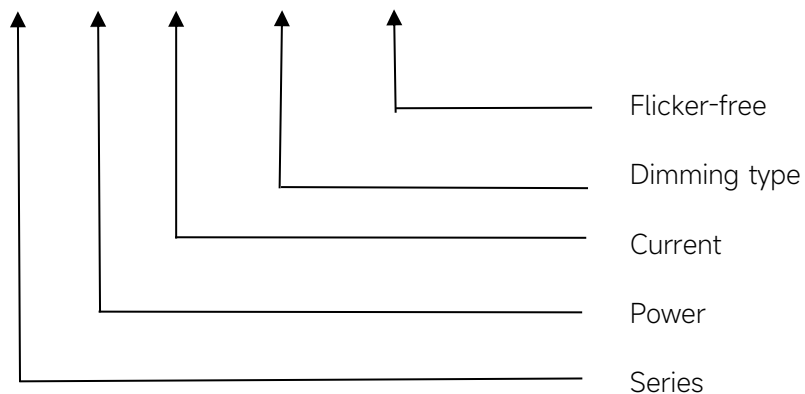
- LED panel light

◆ Description

FMS-44-1050 0-10 LD is a 44W constant current LED driver that operates from 198-264Vac input with 650 to 1050mA output current and a forward voltage range from 9 to 42Vdc. The output current is adjustable by DIP Switch. With its compact dimensions from 220 x 30 x 21mm. It is easy to integrate in LED Panel products. To ensure trouble-free operation, it provides protection against output short circuit, overload and over Voltage.

◆ Model code

FMS-44-1050 0-10 LD



◆ Specification

Output	Constant Current (mA)	650mA	700mA	750mA	...	1050mA
	Voltage Range(VDC)	9-42V				
	Unload voltage Max.(VDC)	60V				
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	Auxiliary Output Voltage	12V				
	Auxiliary Output Current	50 mA				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	88%@full Load,220-240V				
Input	Rated input voltage(VAC)	220-240VAC				
	Range of input voltage(VAC)	198-264VAC				
	Range of input voltage(VDC)	176-280VDC				
	Frequency(Hz)	0/50/60 Hz				
	Displacement factor	> 0.9				
	Power Factor	0.6C-0.95				
	Input Current max	0.35A				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	Standby Power	≤0.5W				
	Network standby power	≤0.5W				
	THD (Typ.)	<10%@full Load,220-240V				
Dimming	Dimming	YES				
	Dimming mode	0-10V				
	Dimming depth	1%				
	Dimming current range	1-100%				
Protection	Over Load Protection	103-130%				
		YES/Auto Resume				
	Over Voltage Protection	60VDC				
		YES/Auto Resume				
	Short circuit Protection	YES/Auto Resume				
Environment	Operating Temperature	-20°C...+60°C				
	Humidity	20%-90%RH				
	Tc	85°C				
	Storage Temperature	-25°C...+60°C				
	Life time	>50000h@Tc=80°C				

Surface	Dimension	220 x 30 x 21mm
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; BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.	

◆ Parameter

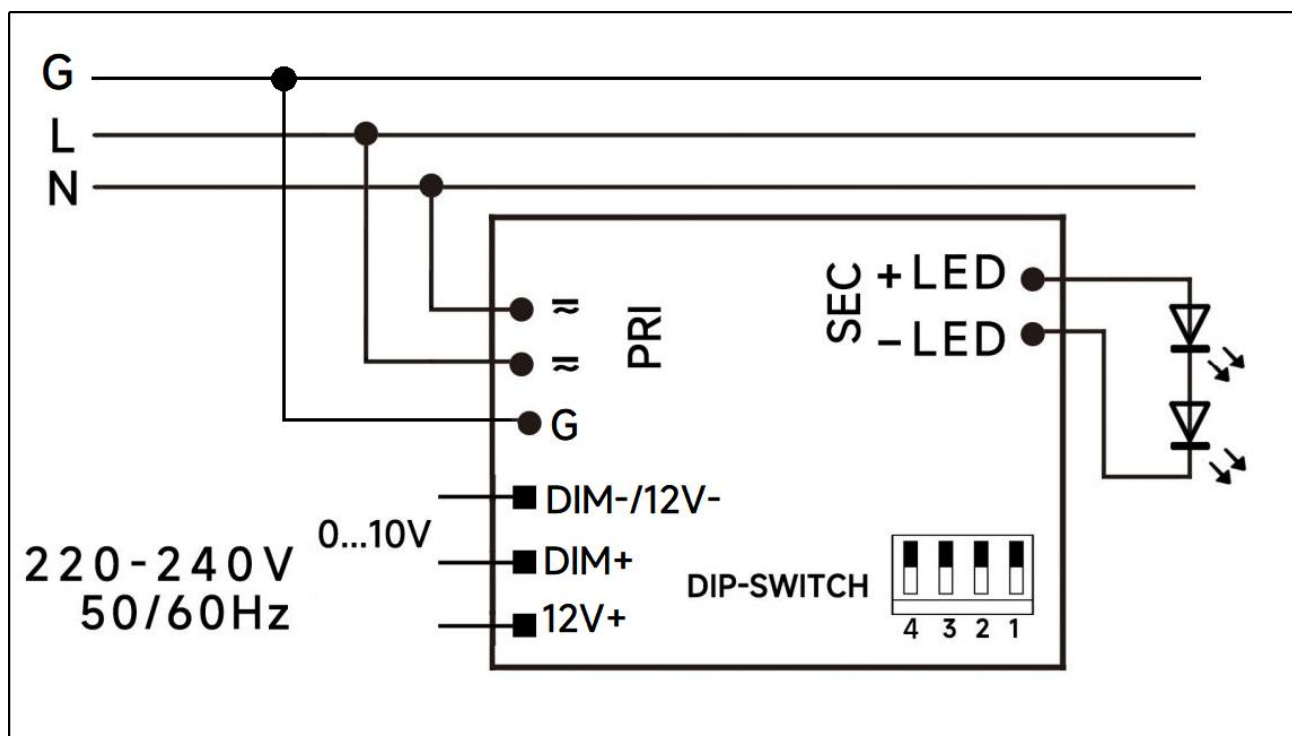
Number	Output				Switch position			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
1	650mA	9-42V	60V	27.3	--	--	--	--
2	700mA			29.4	--	--	--	ON
3	750mA			31.5	--	--	ON	--
4	800mA			33.6	--	--	ON	ON
5	850mA			35.7	--	ON	--	--
6	900mA			37.8	--	ON	--	ON
7	950mA			39.9	--	ON	ON	--
8	1000mA			42	--	ON	ON	ON
*9	1050mA			44.1	ON	ON	ON	ON

* Factory default

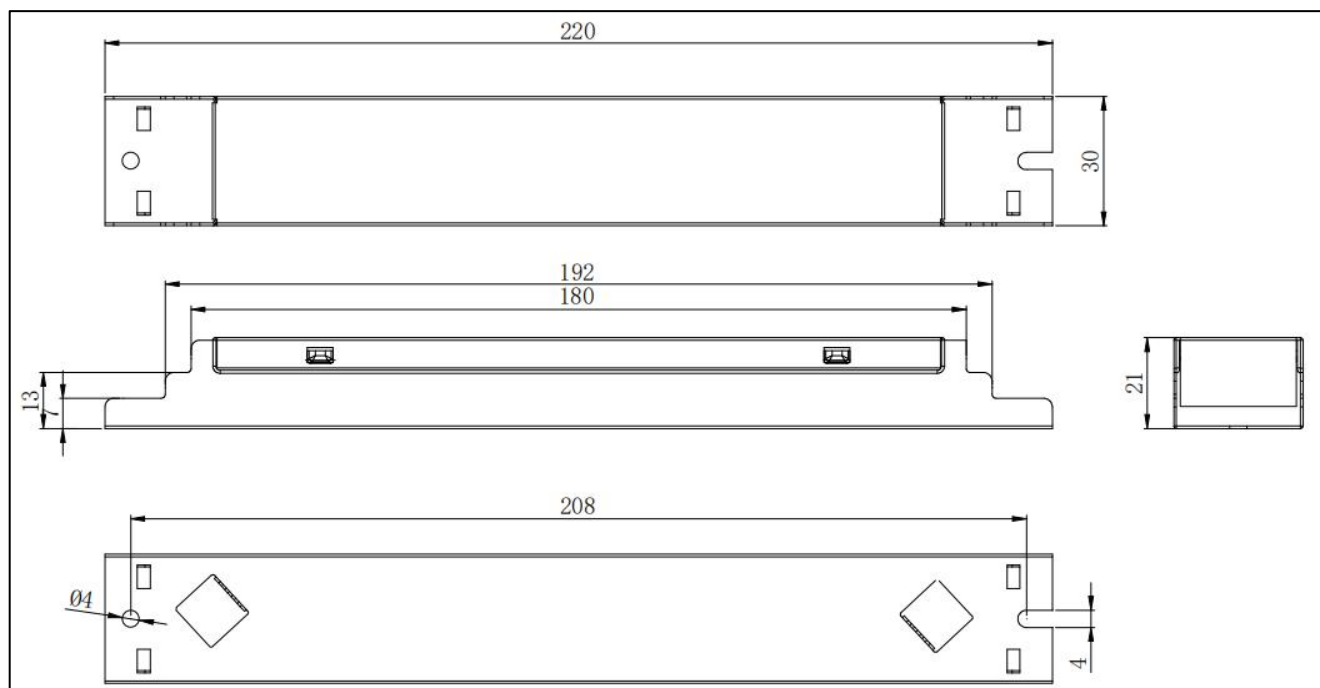
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
6.8A	126μs	22pcs	36pcs	45pcs	22pcs	36pcs	45pcs

◆ Wiring diagram



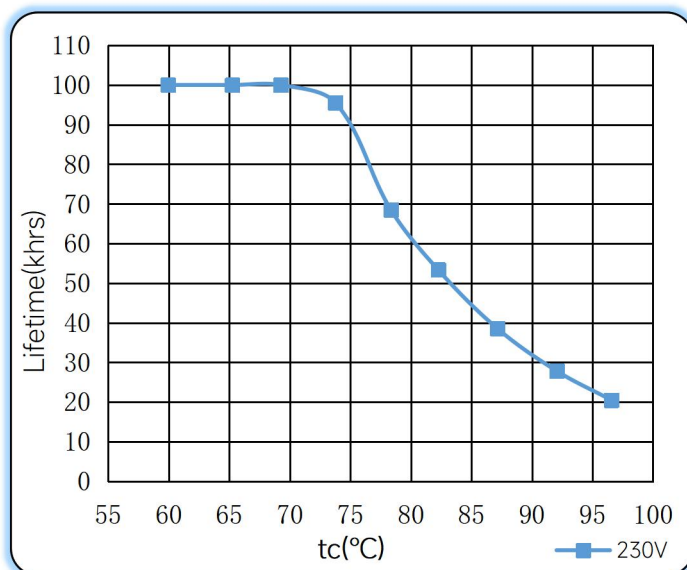
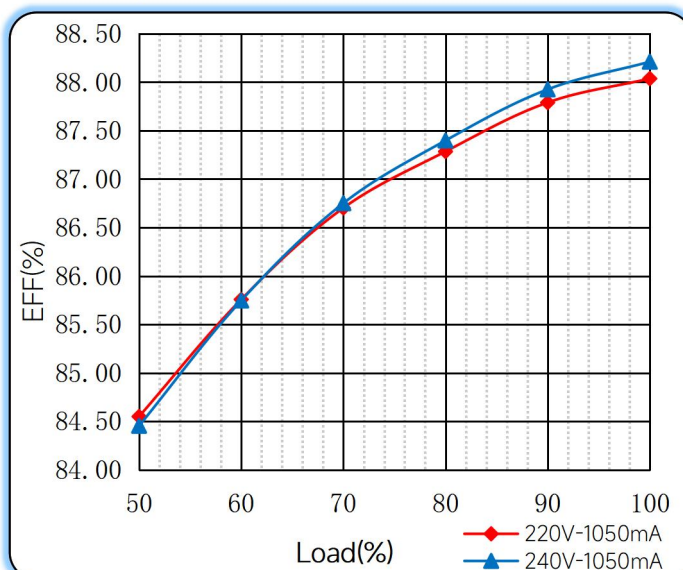
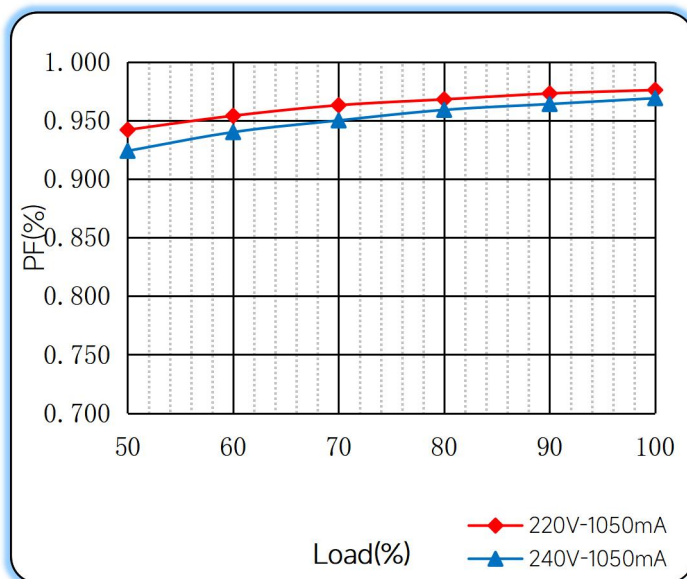
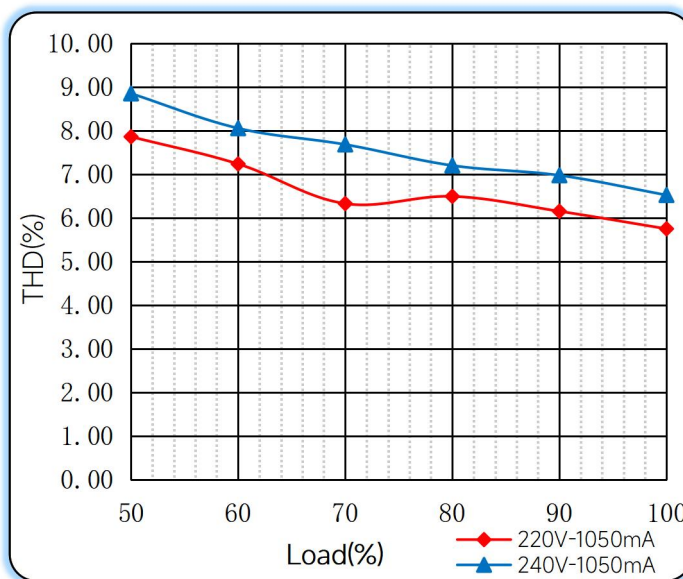
◆ 2D diagram



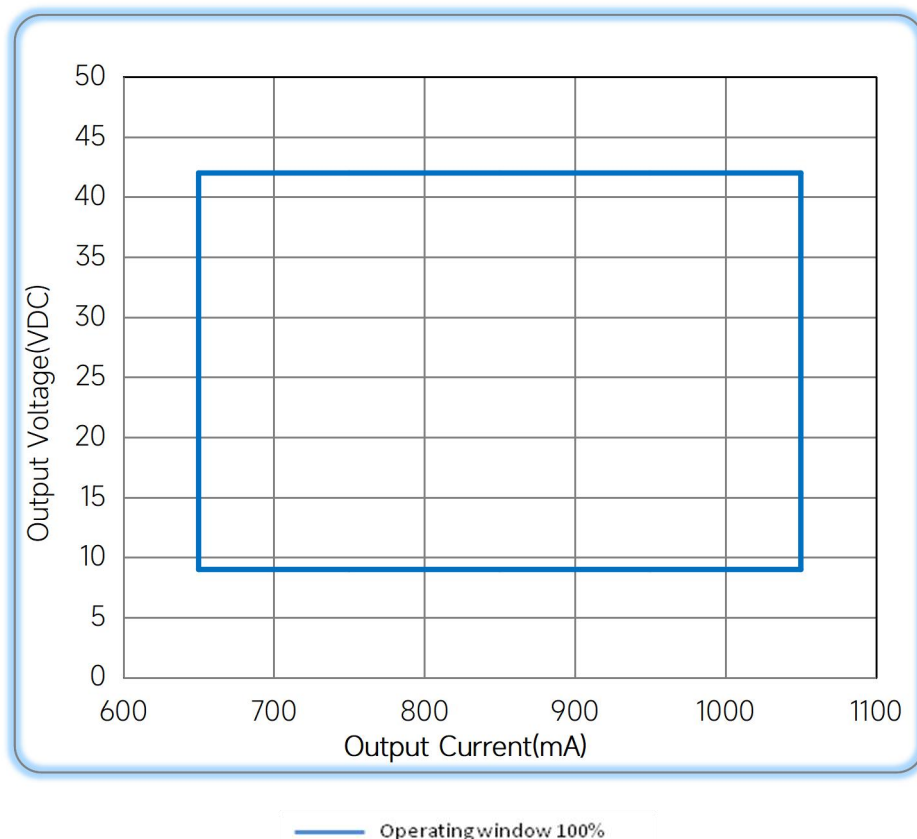
◆ Wiring & Connections

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

◆ Curve for FMS-44-1050 0-10 LD, $I_o=1050\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/05/03

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Manual