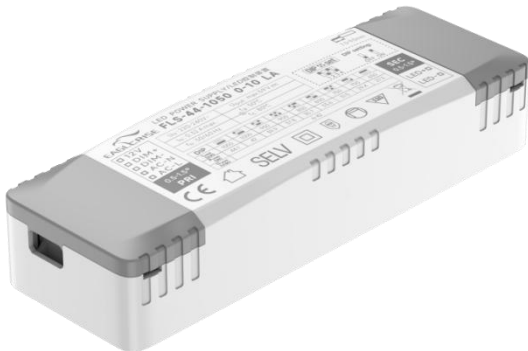


44W 0-10V+RX+PWM Dimming power supply



■ Approve

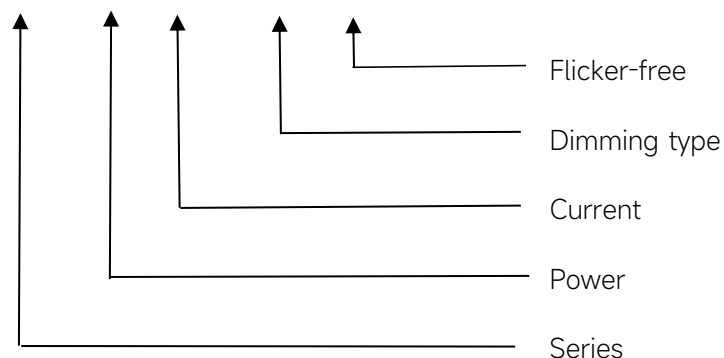


◆ Description

FLS-44-1050 0-10 LA 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 it's compact dimensions from 138 x 45 x 28mm it is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

FLS-44-1050 0-10 LA



Features

- For luminaries of protection Class I, II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor 0.97
- Efficiency 85%
- Support 0-10V,RX,PWM Dimming
- 5 years warranty

Applications

- LED panel light, Down light

◆ Specification

Output	Constant Current (mA)	650	700	750	800	850	900	950	1000	1050
	Voltage Range(VDC)	9-42VDC								
	Unload voltage Max.(VDC)	59VDC								
	Current Accuracy	±5%								
	Output HF current ripple(≥1KHz)	±5%								
	Output LF current ripple(≤120Hz)	±3%								
	Auxiliary Output Voltage	12V								
	Auxiliary Output Current	50 mA								
	SVM	≤0.4								
	Pst	≤1								
	Standby Power	≤0.5W								
	Efficiency(Typ.)	85%								
Input	Rated input voltage(VAC)	220-240VAC								
	Range of input voltage(VAC)	198-264VAC								
	Range of input voltage(VDC)	198-280VDC								
	Frequency(Hz)	0/50/60 Hz								
	Displacement factor	≥0.9								
	Power Factor	0.97								
	Input Current max	0.32 A Max								
	Start-up time	< 0.5S								
	No Load Power	≤0.5W								
	THD (Typ.)	≤10%								
Dimming	Dimming	YES								
	Dimming mode	0-10V,RX,PWM								
	Dimming depth	1%								
	Dimming current range	0 ~100%								
Protection	Over Load Protection	103-120%								
		YES/auto Resume								
	Over Voltage Protection	> 59VDC								
		YES/auto Resume								
	Short circuit Protection	YES/auto Resume								
Environment	Over Temperature Protection	YES/Auto Resume								
	Operating Temperature	-20°C...+45°C								
	Humidity	20%-90%RH								
	Tc	85°C								
	Storage Temperature	-25°C...+80°C								
Surface	Life time	> 50000h@Tc=80°C								
	Dimension	138 x 45 x 28(LXWXH)mm								

standards	EN 61547; EN 61347-1,EN 61347-2-13; IEC 61347-1,IEC 61347-2-13; GB 19510.1,GB 19510.14; AS 61347.1,AS 61347.2.13; EN 62384; EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3; GB/T 17743,GB 17625.1	
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

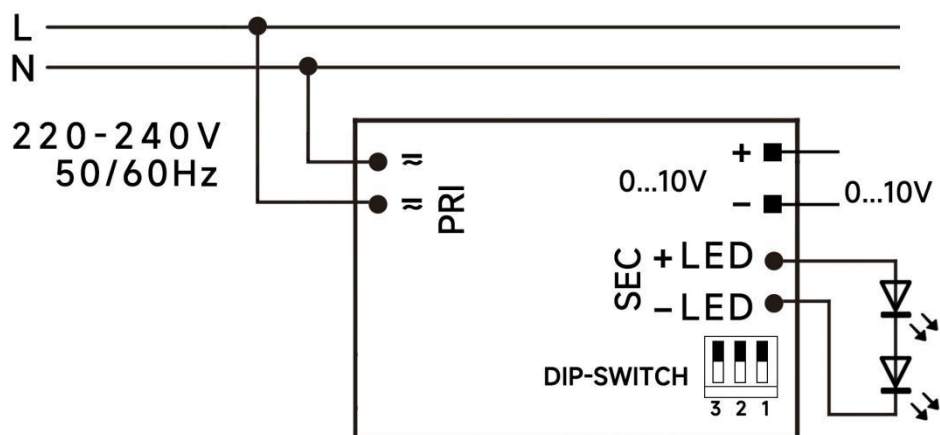
Number	Output				Switch position			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
1	650mA	6-42VDC	59VDC	27.3	--	--	--	--
2	700mA			29.4	--	--	--	ON
3	750mA			31.5	--	--	ON	--
4	800mA			33.6	--	--	ON	ON
5	850mA			35.7	--	ON	--	--
6	900mA			37.8	--	ON	--	ON
7	950mA			39.9	--	ON	ON	--
8	1000mA			42	--	ON	ON	ON
*9	1050mA			44.1	ON	ON	ON	ON

* Factory default

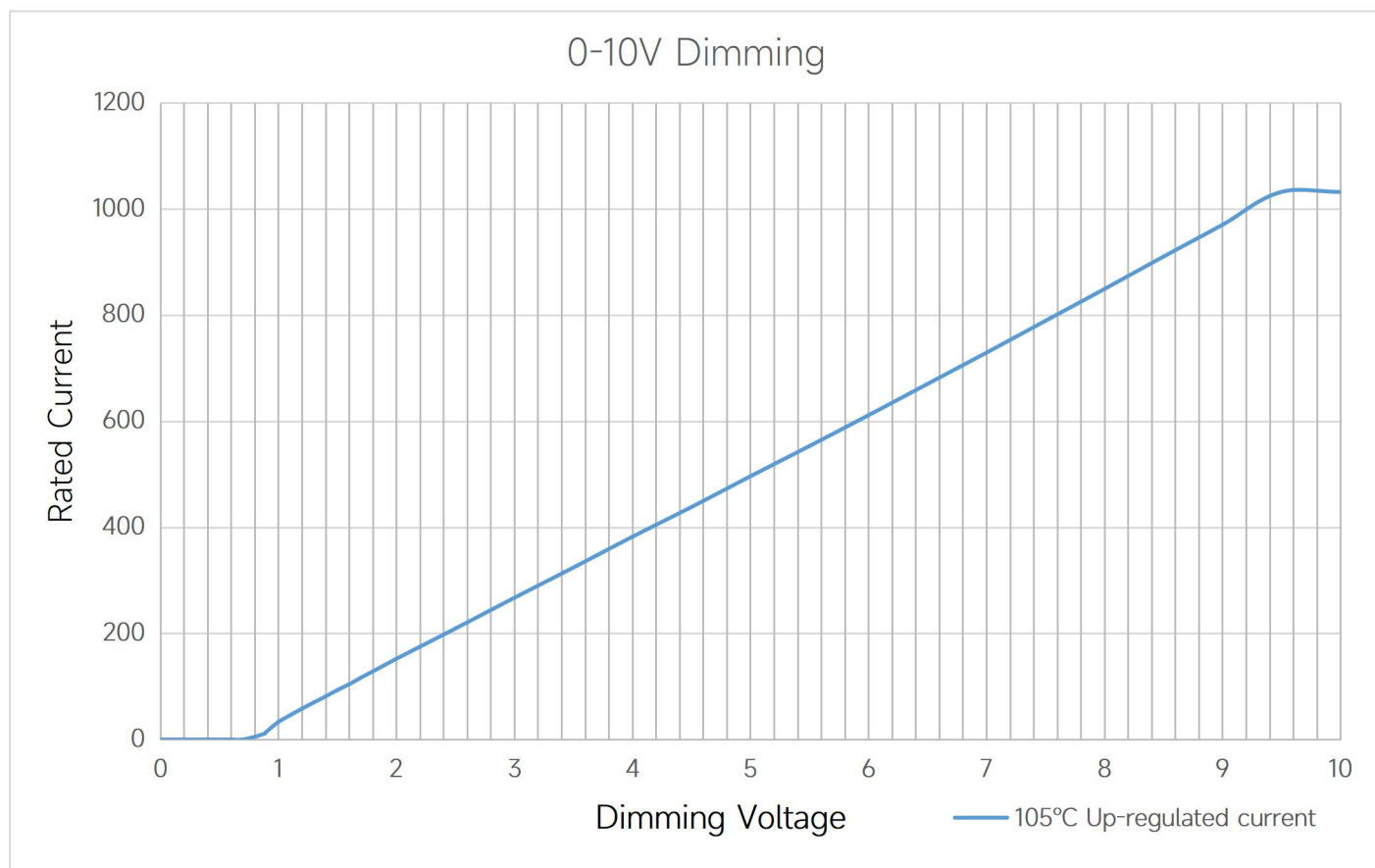
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
11.7A	120μs	25pcs	40pcs	50pcs	25pcs	40pcs	50pcs

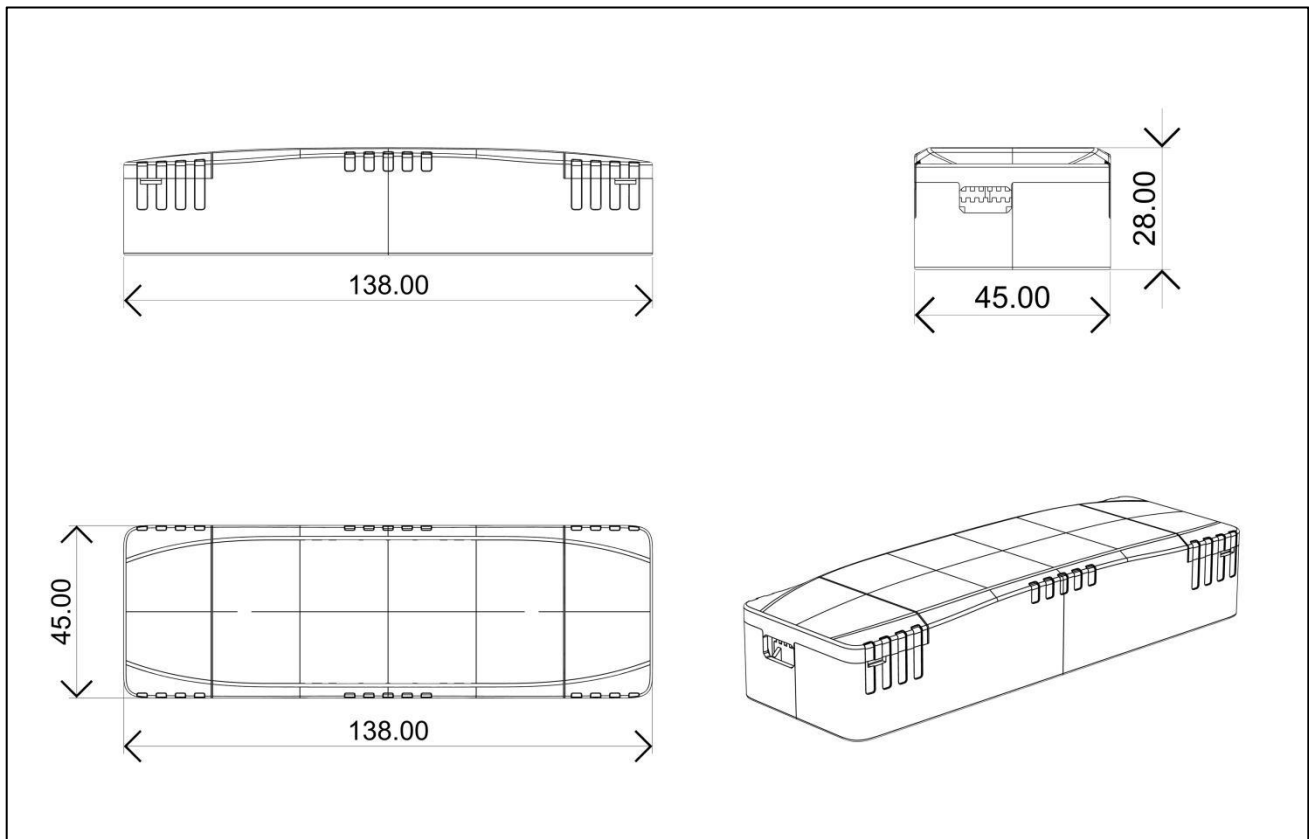
◆ Wiring diagram



◆ The dimming curve



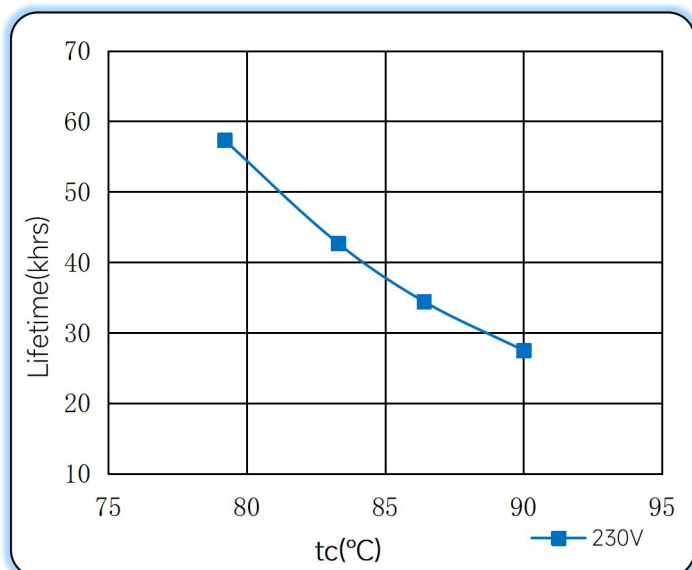
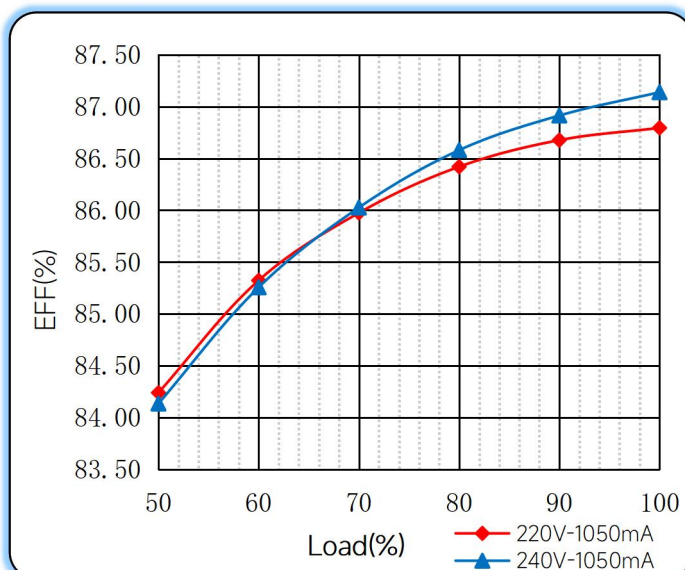
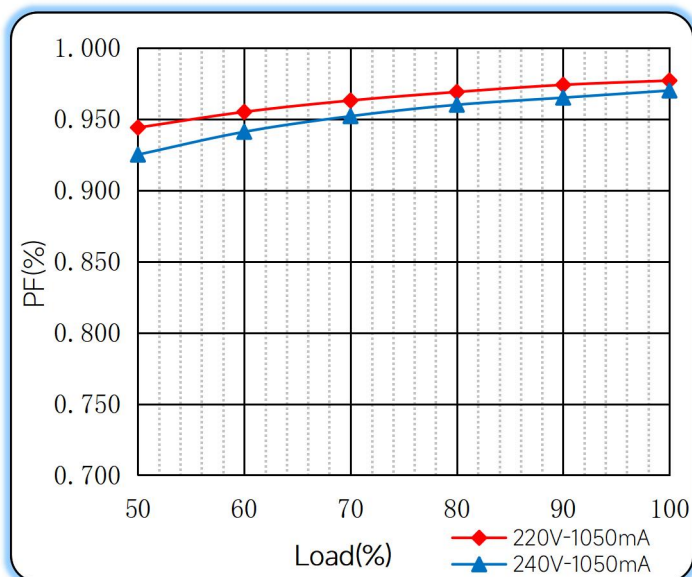
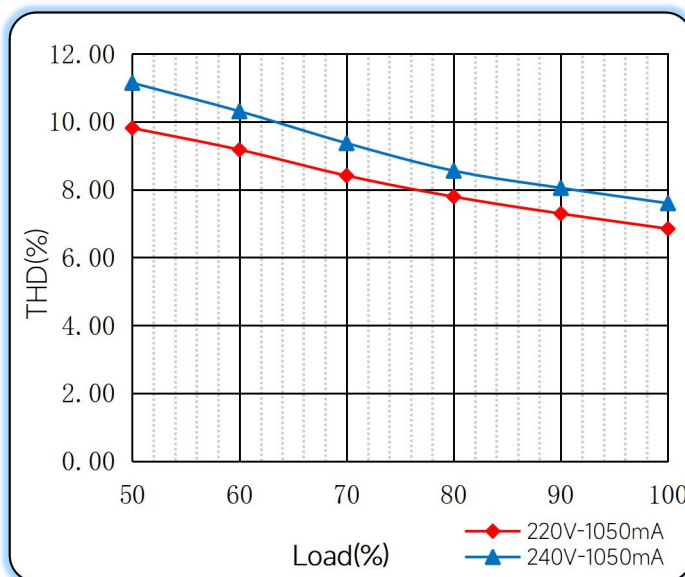
◆ 2D diagram



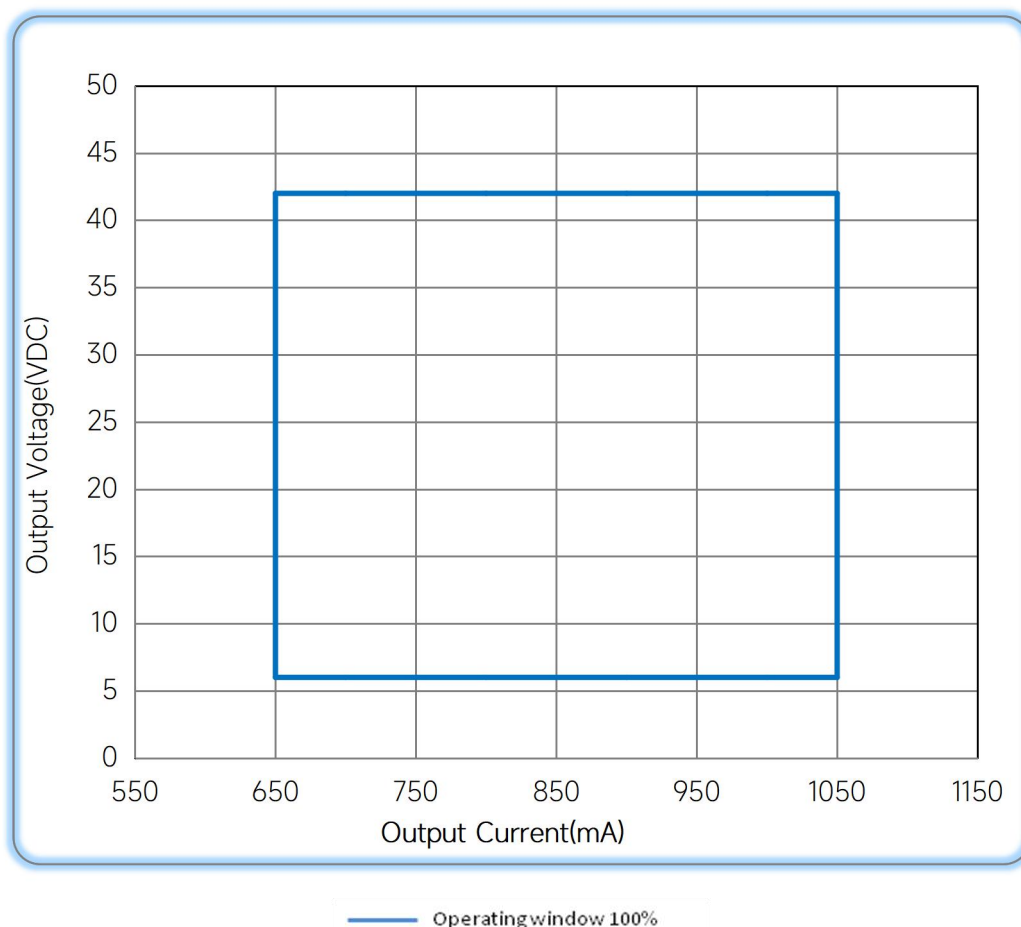
◆ Wiring & Connections

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 FLS-44-1050 0-10 LA, $I_o=1050\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



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Manual