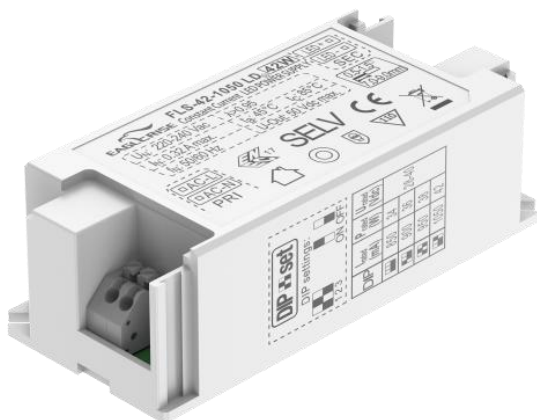


42W Constant current Dip Switch-FLS Series



■ Approve

CE CB SELV

Features

- Class II, SELV, built-in/independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: ≥ 0.95
- Efficiency: $\geq 87\%$
- 5 years warranty

Applications

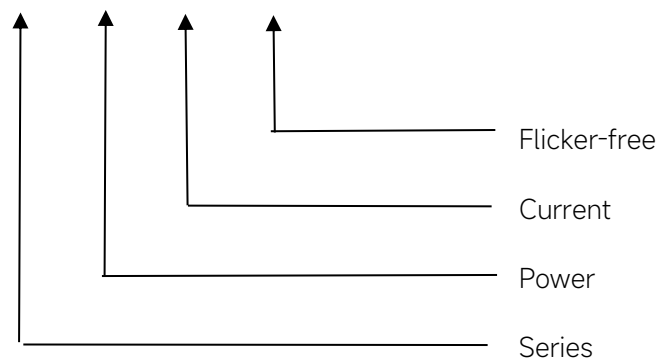
- LED strips, LED panel
- Down light, Track spot light

◆ Description

FLS-42-1050 LD is a 42W constant current LED driver with 850 to 1050mA output current and a forward voltage range from 28 to 40Vdc. The output current is adjustable by DIP Switch. With it's compact dimensions from 97 x 43 x 26mm it is easy to integrate in LED Panel and down light products. The side covers are available as accessories and allow to use the LED driver independent.

◆ Model code

FLS-42-1050 LD



◆ Specification

Output	Constant Current	850mA	900mA	950mA	1050mA
	Voltage Range	28-40VDC			
	Unload voltage Max.	50VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4@Full Load			
	Pst	≤1@Full Load			
	Efficiency(Typ.)	≥87%			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	≥0.95			
	Input Current max	0.32A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	< 10%			
Protection	Over Load Protection	103-120%			
		YES/Auto Resume			
	Over Voltage Protection	> 50VDC			
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~~+45°C			
	Humidity	20%-90%RH			
	Tc	85°C			
	Storage Temperature	-40°C~~+80°C			
	Life time	> 50000h@Tc=75°C,230VAC			
Surface	Dimension	131X43X26(LXWXH)mm (Without side caps) : 97X43X26(LXWXH)mm			
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; 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 240VAC input , Io=800mA, 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

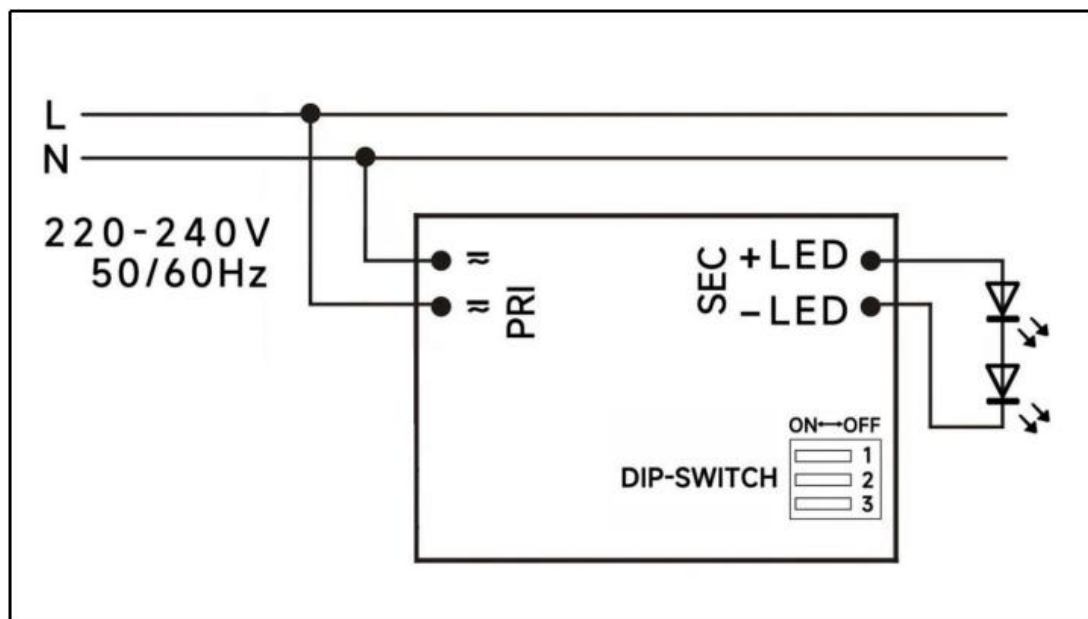
Number	Output				Switch position		
	Current (mA) I1+I2	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	850mA	28-40	50	34W	--	--	--
2	900mA			36W	ON	--	--
3	950mA			38W	--	ON	--
4	1050mA*			42W	--	--	ON

* Factory default

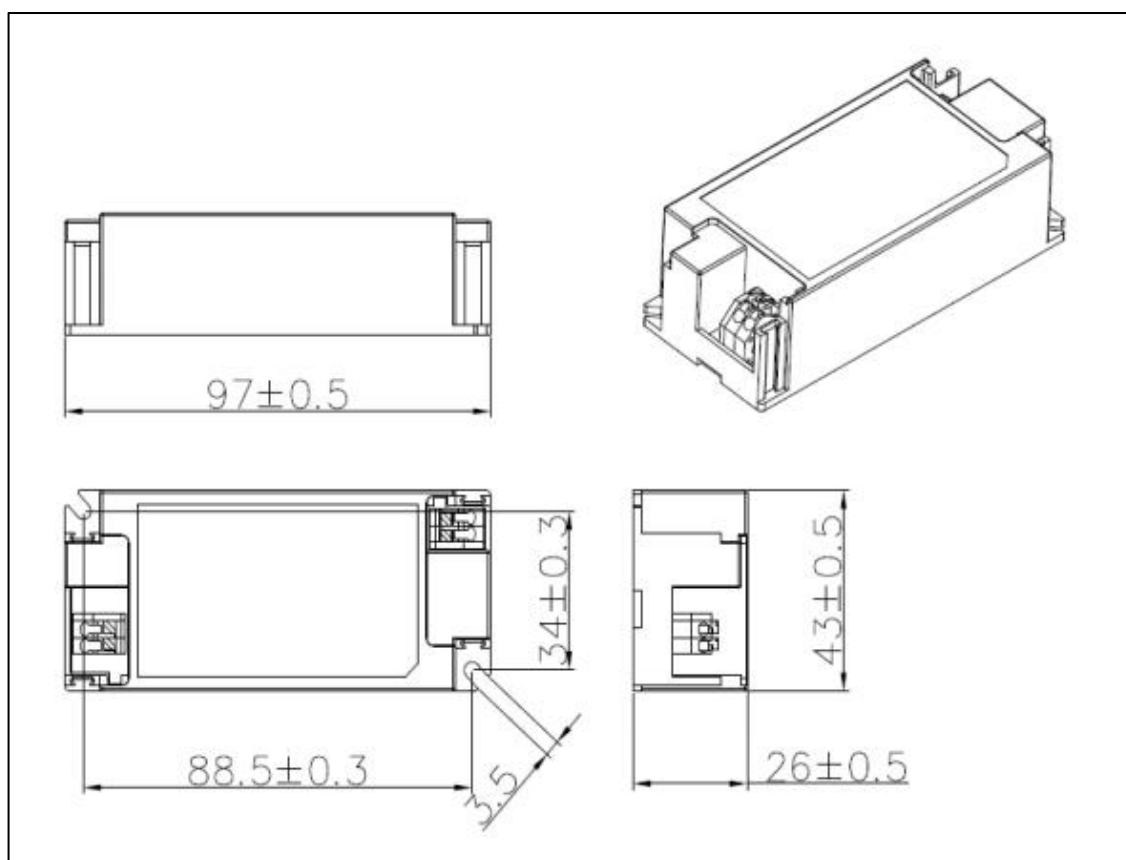
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
4.82A	40μs	32pcs	51pcs	64pcs	32pcs	51pcs	64pcs

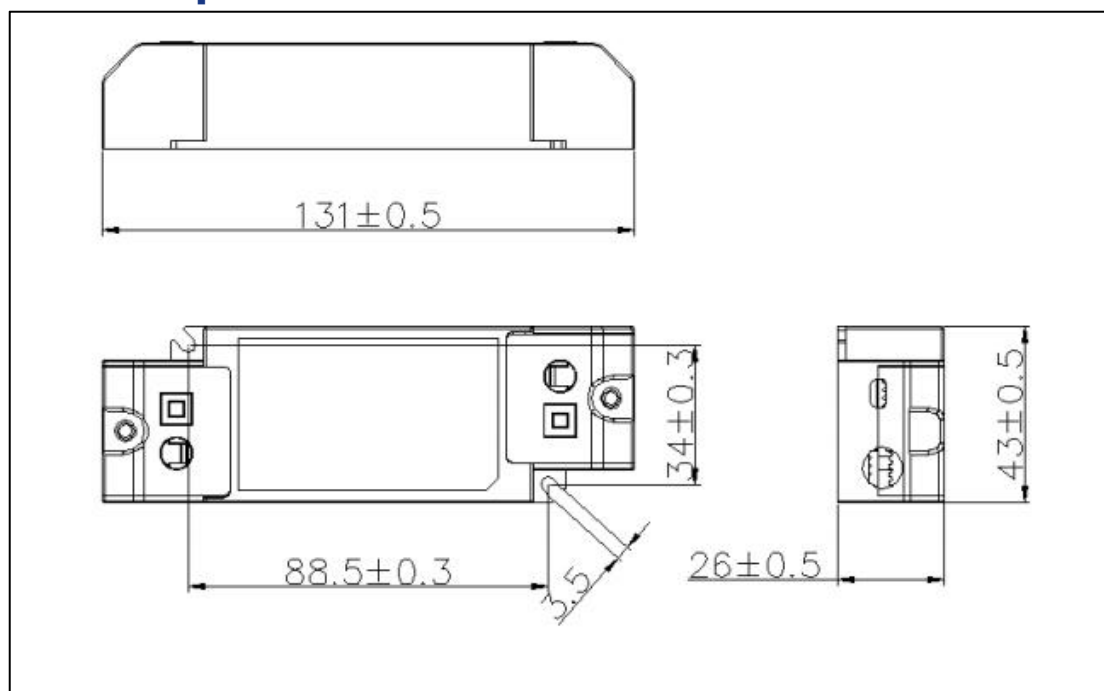
◆ Wiring diagram



◆ 2D diagram



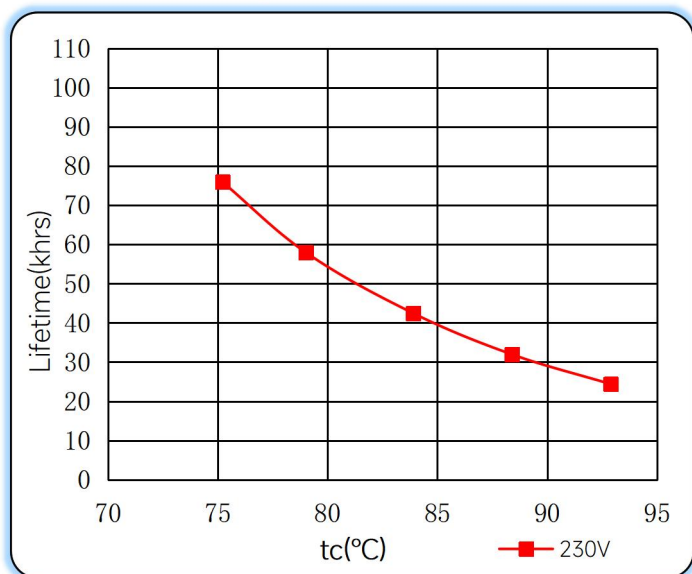
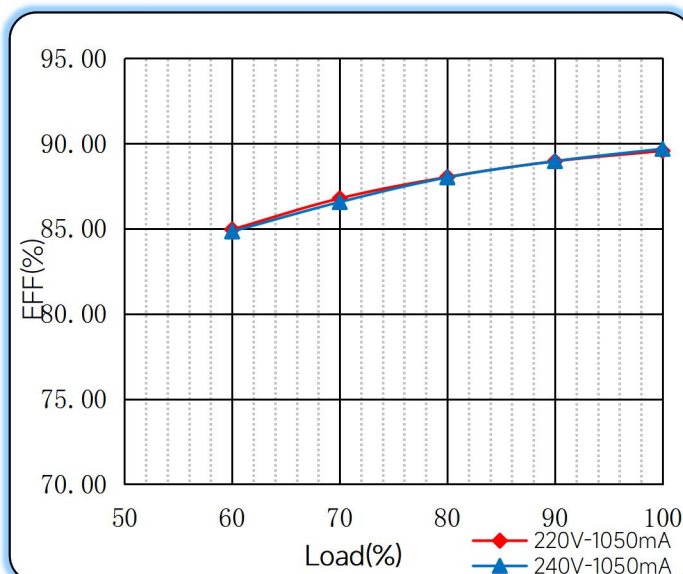
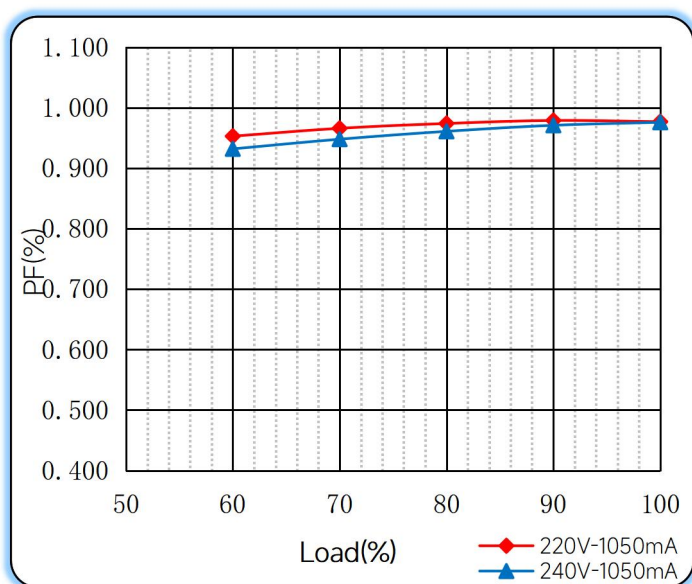
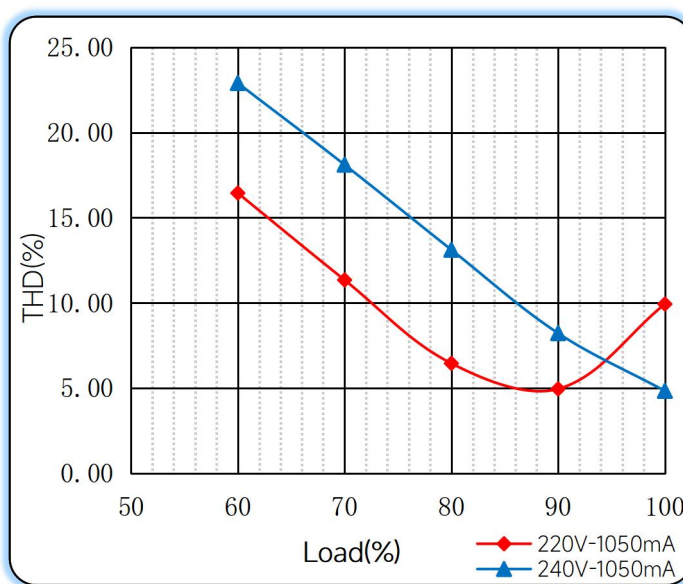
With side caps



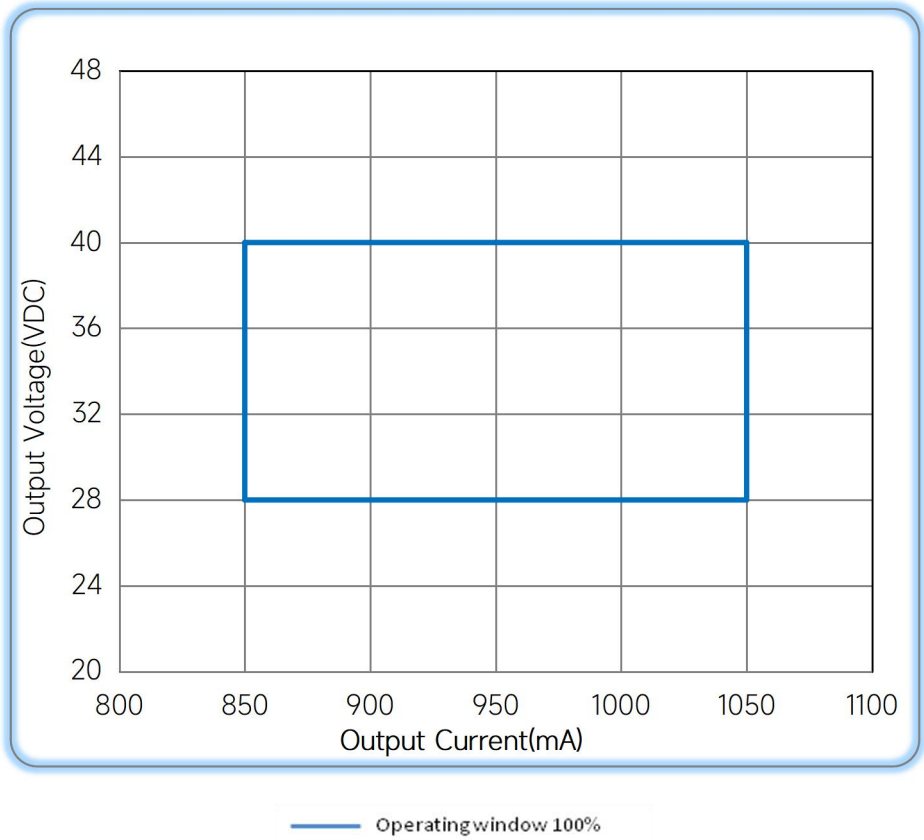
◆ Wiring & Connections

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-42-1050 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	2023/03/14

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Manual