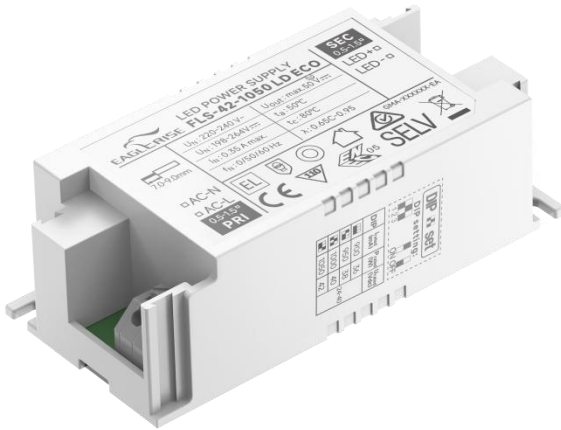


42W Constant Current power supply



■ Approve



Features

- Class II, SELV, built-in/independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.96
- Efficiency : 90%
- 5 years warranty
- IP20

Applications

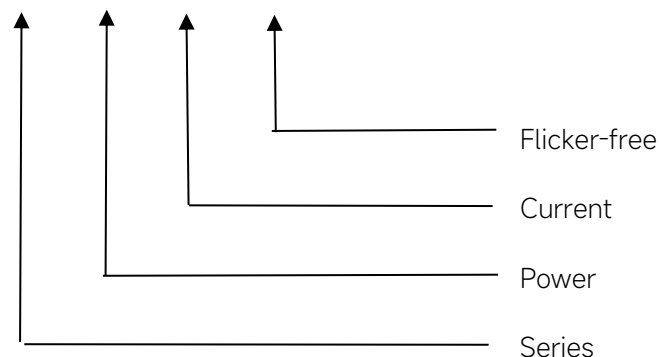
- LED panel, Down light

◆ Description

FLS-42-1050 LD ECO is a 42W constant current LED driver with 900 to 1050mA output current and a forward voltage range from 24 to 40Vdc. The output current is adjustable by DIP Switch. With it's compact dimensions from 97 x 43 x 30 mm 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 ECO



◆ Specification

Output	Constant Current	900mA	950mA	1000mA	1050mA
	Voltage Range	24-40VDC			
	Unload voltage Max.	50VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±4%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.01			
	P _{st}	≤0.5			
	Efficiency(Typ.)	90%			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	0.96			
	Input Current max	350mA			
	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			
Over Temperature Protection	YES/Auto Resume				
Environment	Operating Temperature	-25°C~+50°C			
	Humidity	20%-90%RH			
	Tc	85°C			
	Storage Temperature	-40°C~+80°C			
	Life time	> 50000h@Tc=80°C			
Surface	Dimension	97X43X30mm (With side caps :131X43X30mm)			
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 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.
- 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.

◆ Parameter

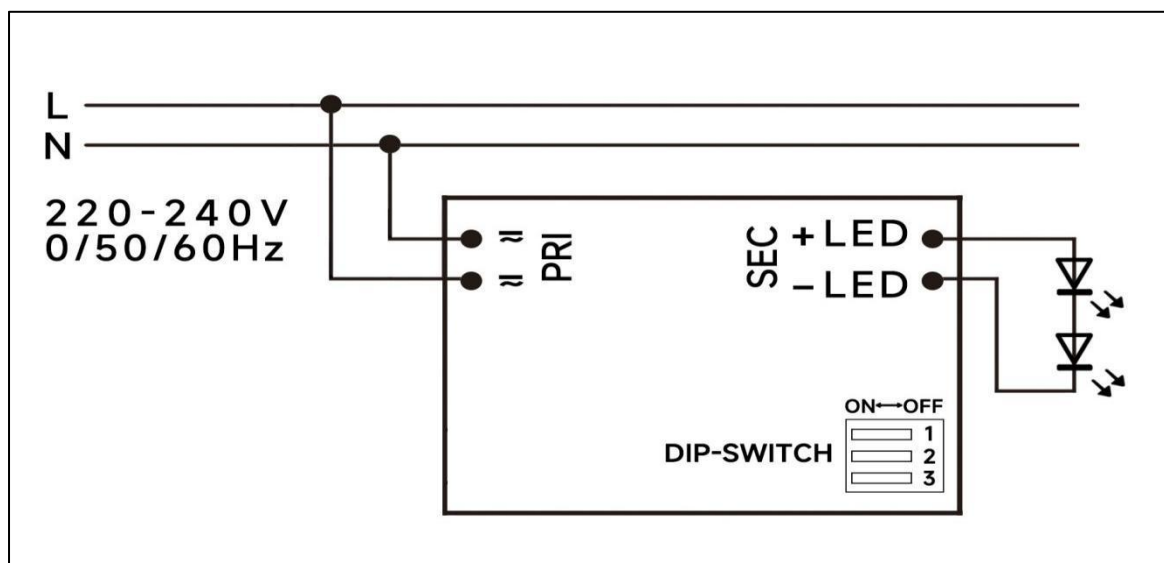
Number	Output	Switch position		
	Current(mA)	1	2	3
1	900mA	--	--	--
2	950mA	ON	--	--
3	1000mA	--	ON	--
*4	1050mA	--	--	ON

* Factory default

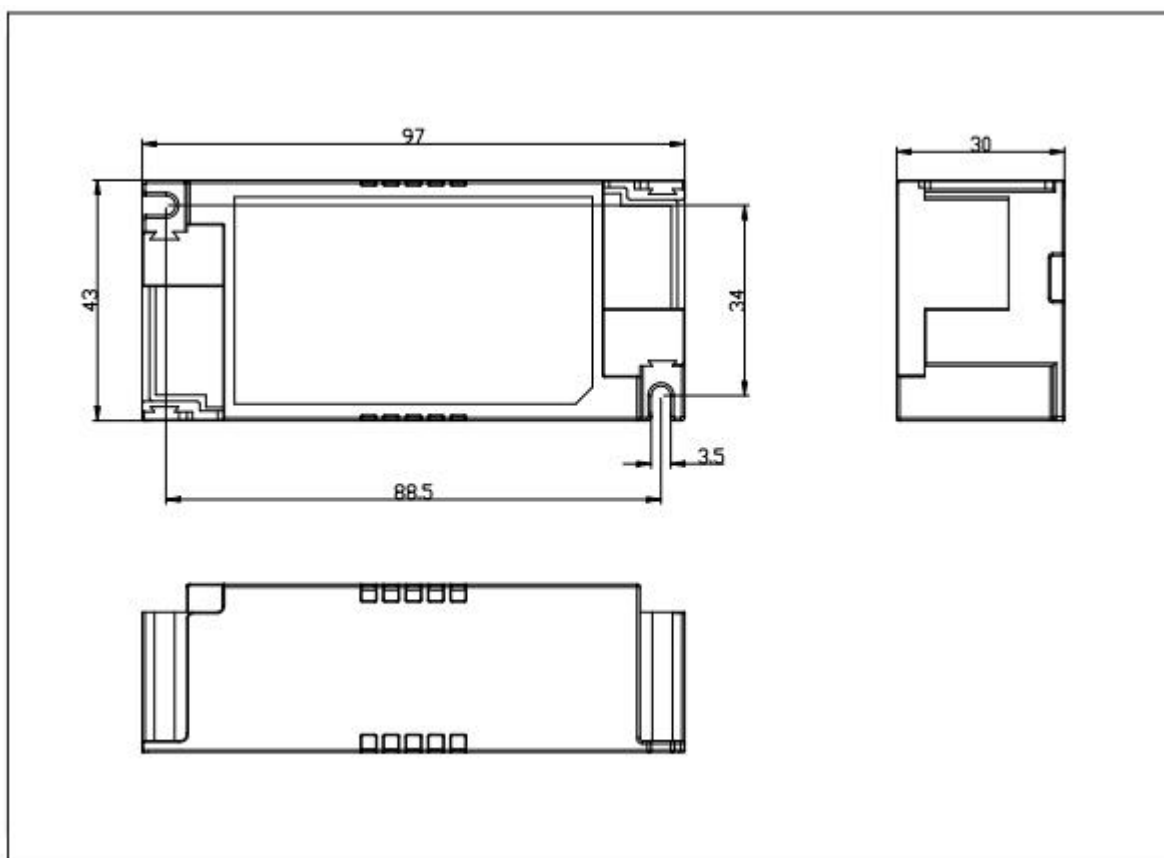
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
20.3A	160μs	22pcs	36pcs	45pcs	22pcs	36pcs	45pcs

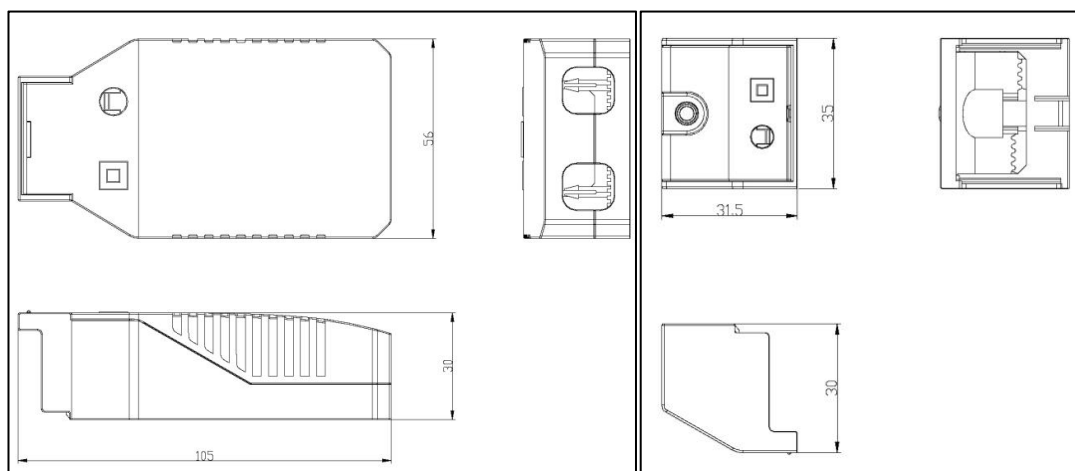
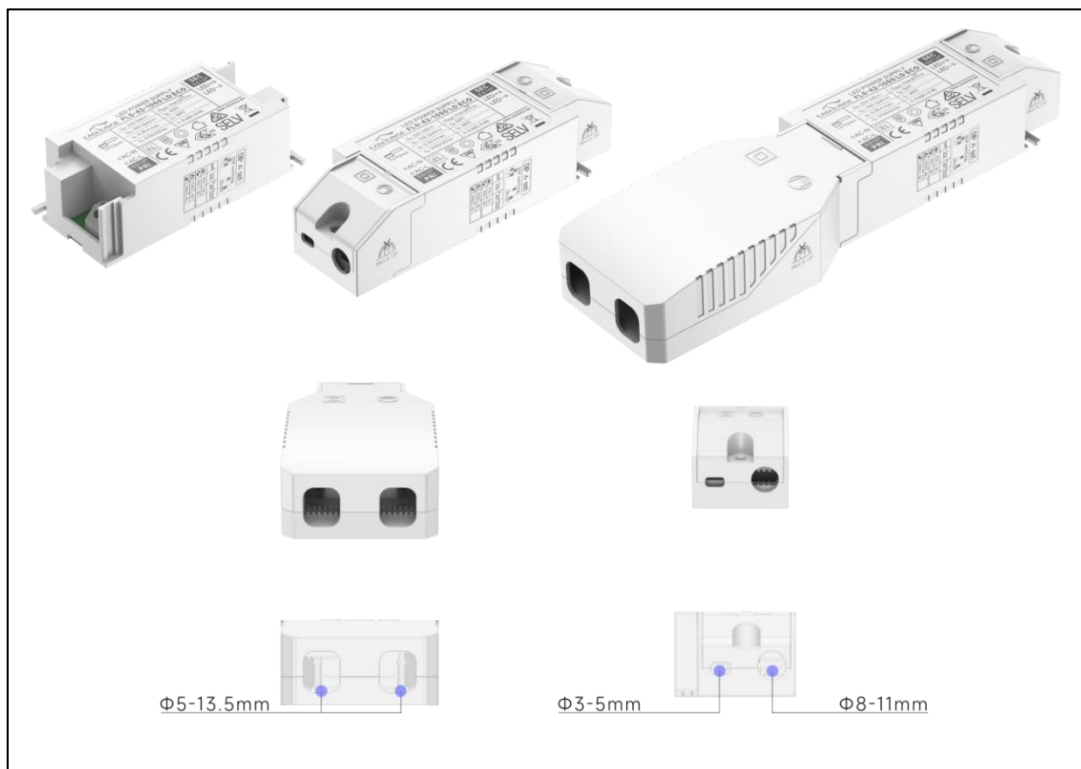
◆ Wiring diagram



◆ 2D diagram



(With side caps)



A caps

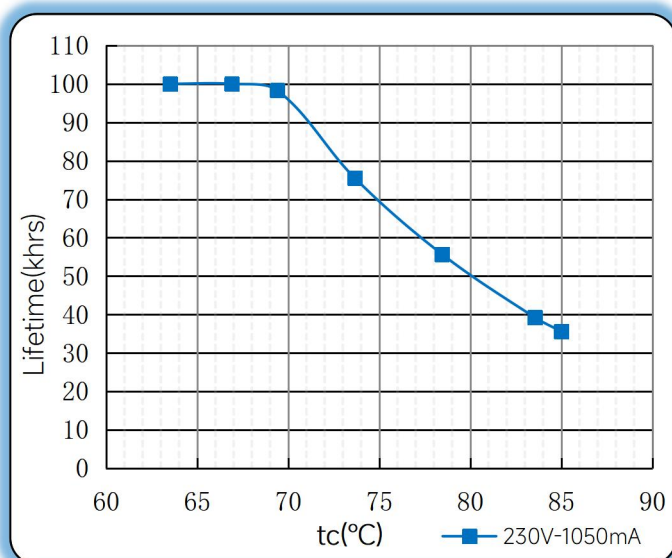
B caps

◆ Wiring & Connections

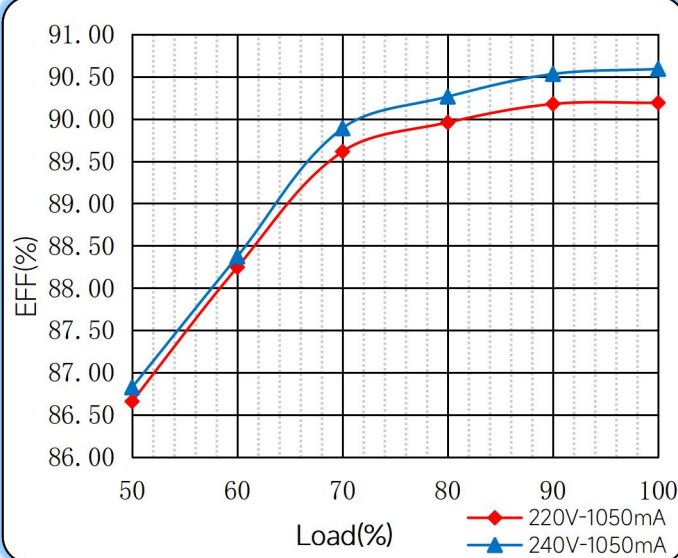
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge.	16...20 AWG (With A side caps: 14...20 AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for FLS-42-1050 LD ECO, $I_o=1050\text{mA}$

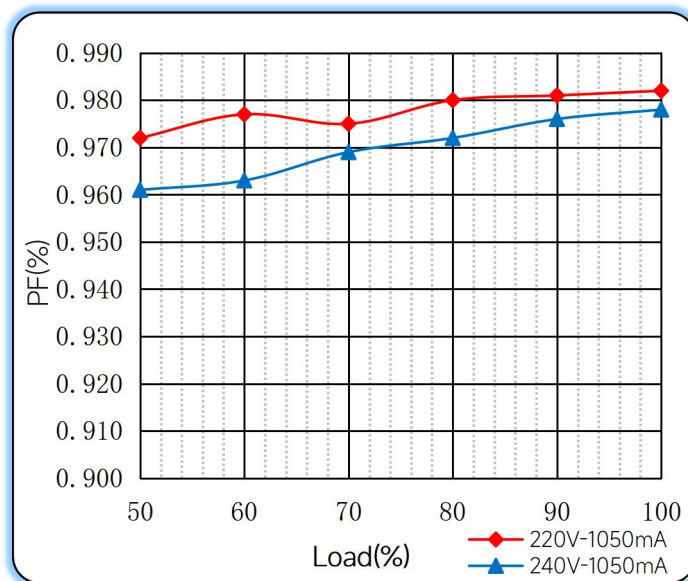
Lifetime vs. Temperature Curve



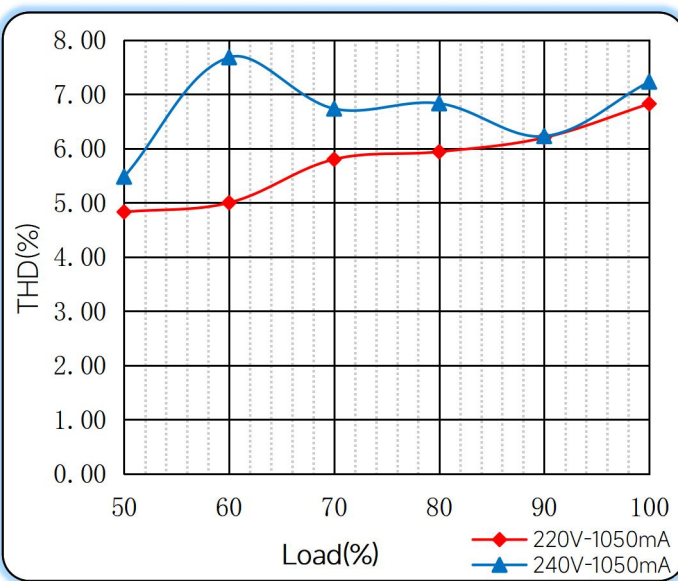
Efficiency vs. Load



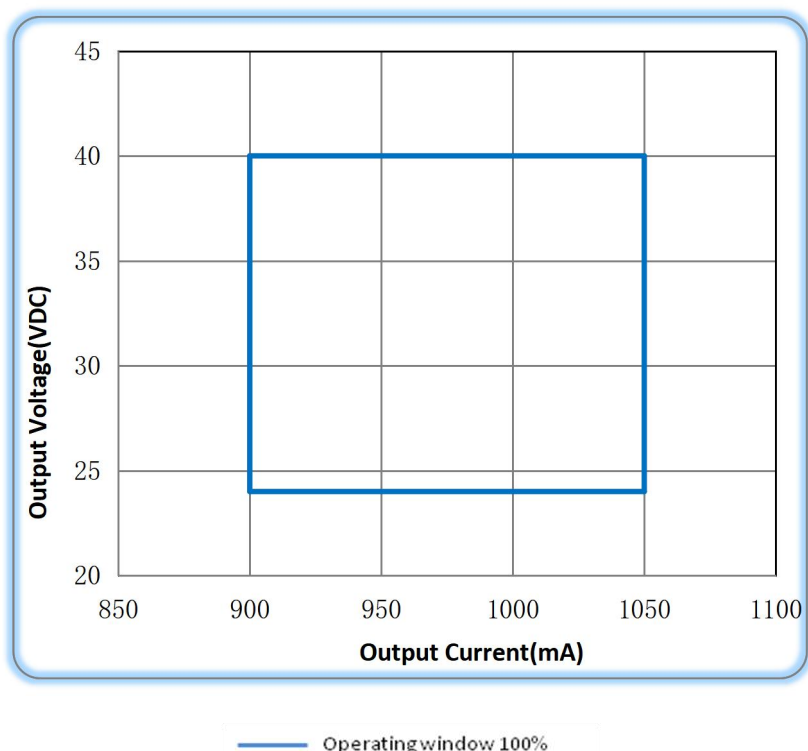
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Curve		Updated	B	2023/01/05

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Manual