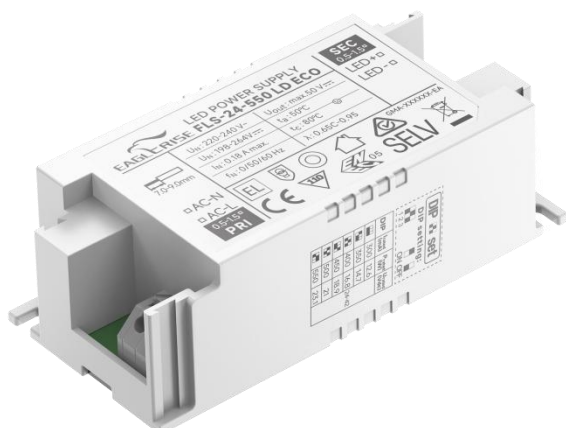


24W Constant Current power supply



■ Approve



Features

- Class II, SELV, Built-in/Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.68C-0.95
- Efficiency : 88%
- 5 years warranty
- IP20

Applications

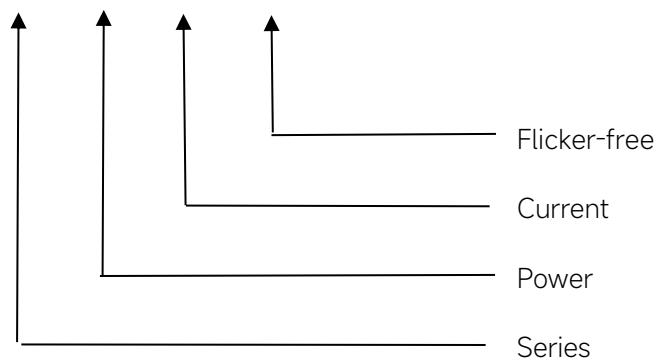
- LED panel, Down light

◆ Description

FLS-24-550 LD ECO is a 24W constant current LED driver with 300 to 550mA output current and a forward voltage range from 24 to 42Vdc. 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-24-550 LD ECO



◆ Specification

Output	Constant Current (mA)	300	350	400	450	500	550
	Voltage Range	24-42VDC					
	Unload voltage Max.	50VDC					
	Current Accuracy	±5%@400-550mA;±8%@300-350mA					
	Output HF current ripple(≥1KHz)	±5%					
	Output LF current ripple(≤120Hz)	±3%					
	SVM	≤0.01@Full Load					
	P _{st}	≤0.05@Full Load					
	Efficiency(Typ.)	88%@Full Load,230V					
Input	Rated input voltage	220-240VAC					
	Range of input voltage	198-264VAC					
	Frequency(Hz)	50/60 Hz					
	Displacement factor	≥0.9					
	Power Factor	0.68C-0.95					
	Input Current	180mA					
	Start-up time	< 0.5S					
	No Load Power	≤0.5W					
	THD (Typ.)	<10%@Full Load,230V					
Protection	Over Load Protection	103-120%					
		YES/Latch off					
	Over Voltage Protection	> 50VDC					
		YES/Latch off					
	Short circuit Protection	YES/Latch off					
Environment	Over Temperature Protection	YES/Auto Resume					
	Operating Temperature	-20°C~+50°C					
	Humidity	20%-90%RH					
	Tc	80°C					
	Storage Temperature	-40°C~+80°C					
Surface	Lifetime	>50000h,@Tc=80°C					
	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.
- 4..Switch and dimmer are not recommended to connect between this product output and luminaries.

◆ Parameter

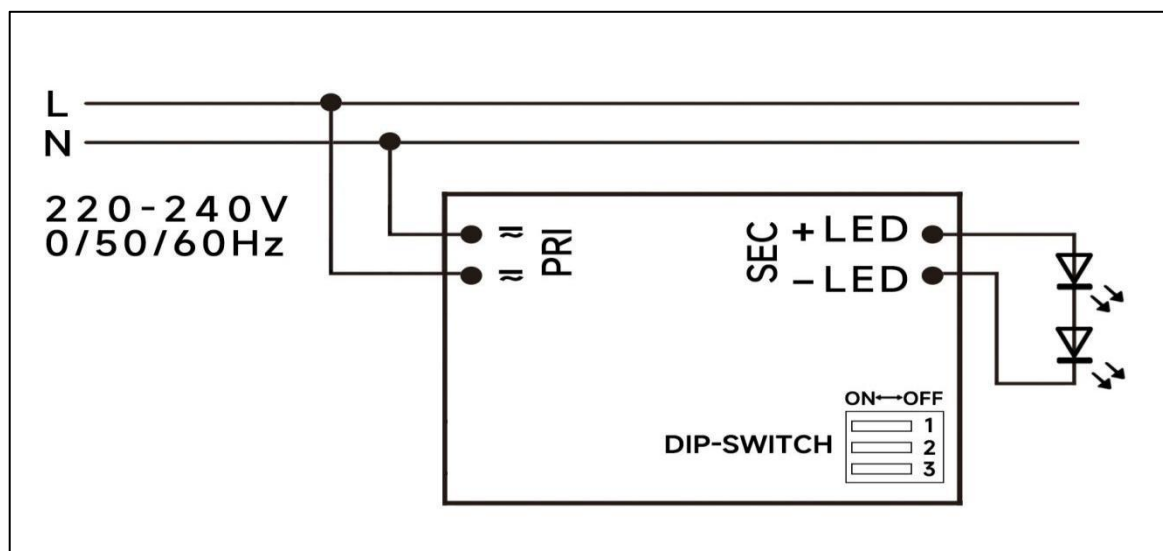
Number	Output				Switch position		
	Current(mA)	Voltage (VDC)	Voltage No load (VDC)	Power(W)	1	2	3
1	300mA	24-42V	50V	12.6W	--	--	--
2	350mA			14.7W	ON	--	--
3	400mA			16.8W	--	ON	--
4	450mA			18.9W	--	--	ON
5	500mA			21W	ON	--	ON
*6	550mA			23.1W	--	ON	ON

* Factory default

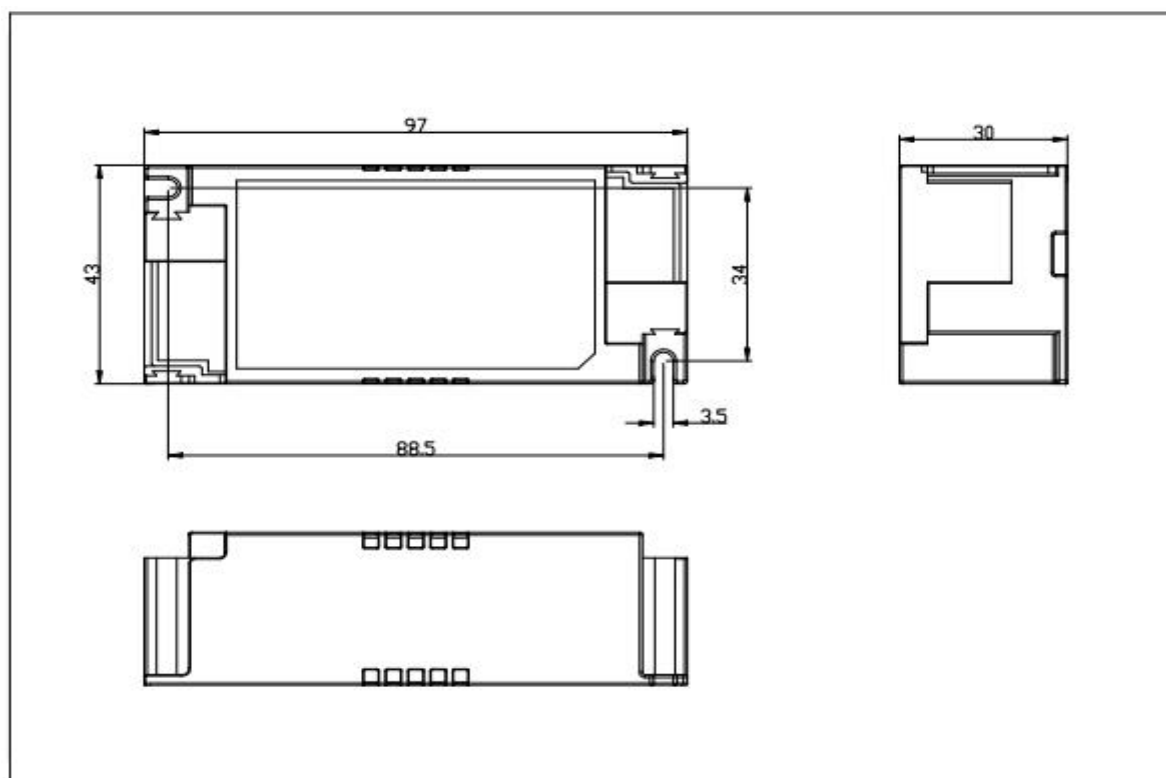
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
17.5A	140μs	34pcs	54pcs	68pcs	44pcs	71pcs	88pcs

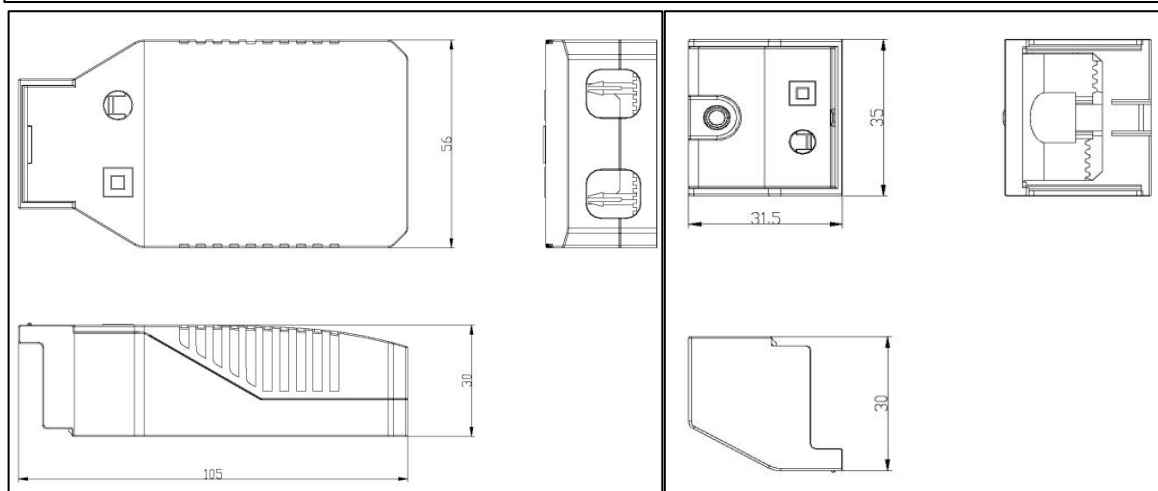
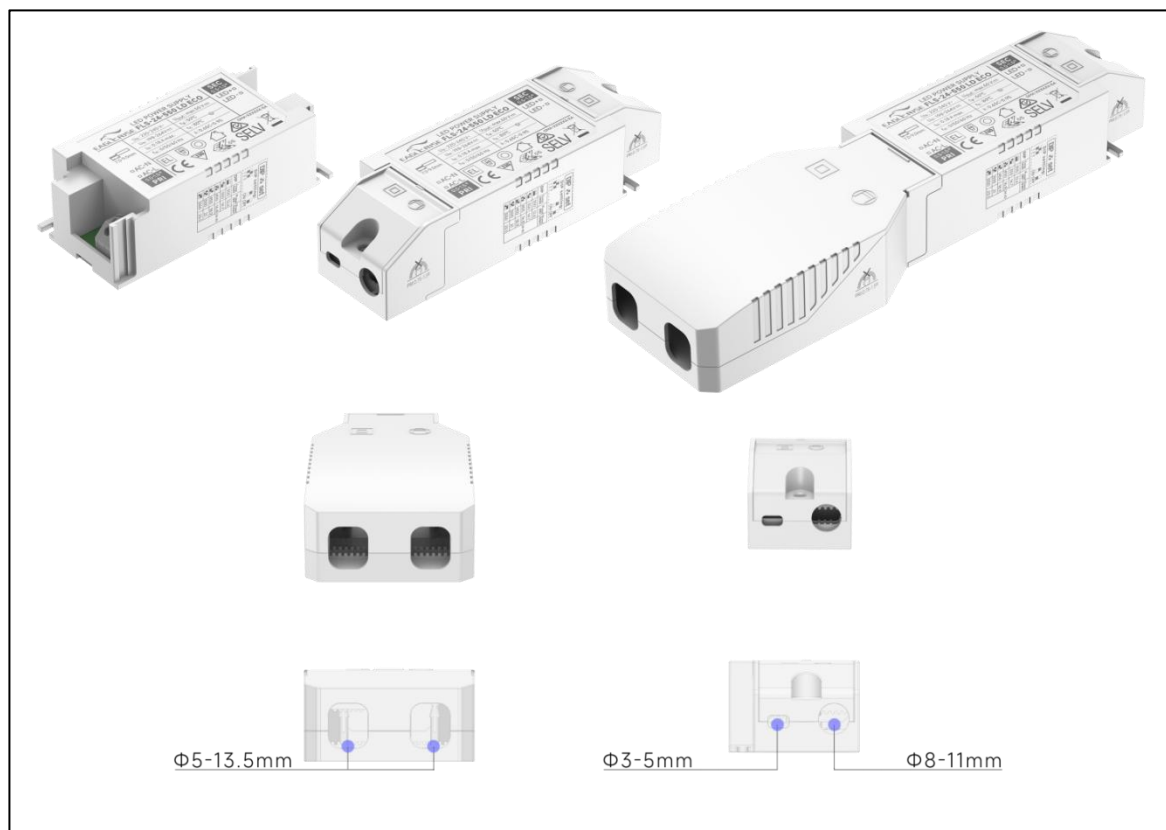
◆ Wiring diagram



◆ 2D diagram



With side caps



A caps

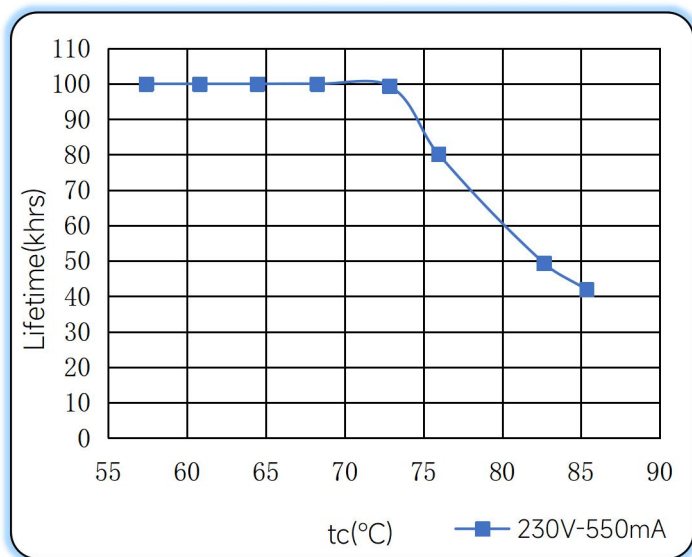
B caps

◆ Wiring & Connections

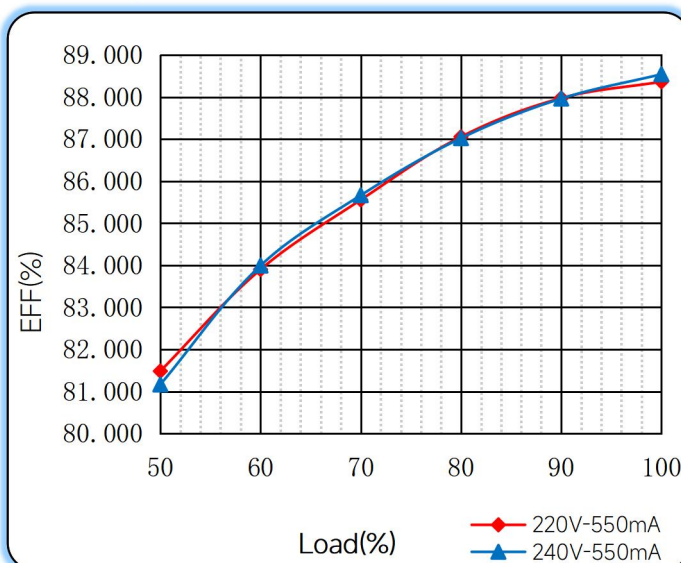
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge.	16...20 AWG (With A side caps: 14...20AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire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

◆ Curve for FLS-24-550 LD ECO, $I_o=550mA$

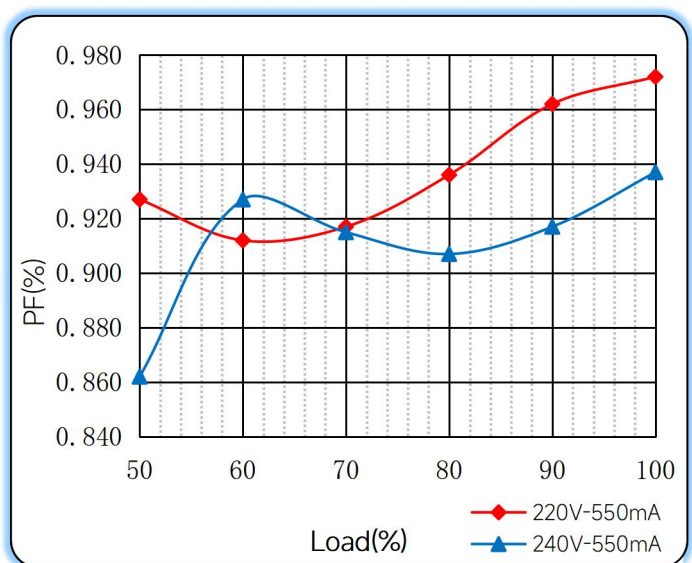
Lifetime vs. Temperature Curve



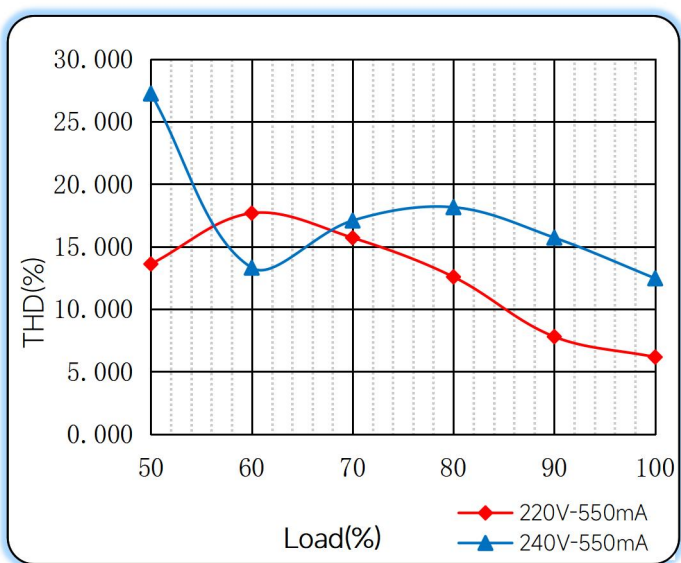
Efficiency vs. Load



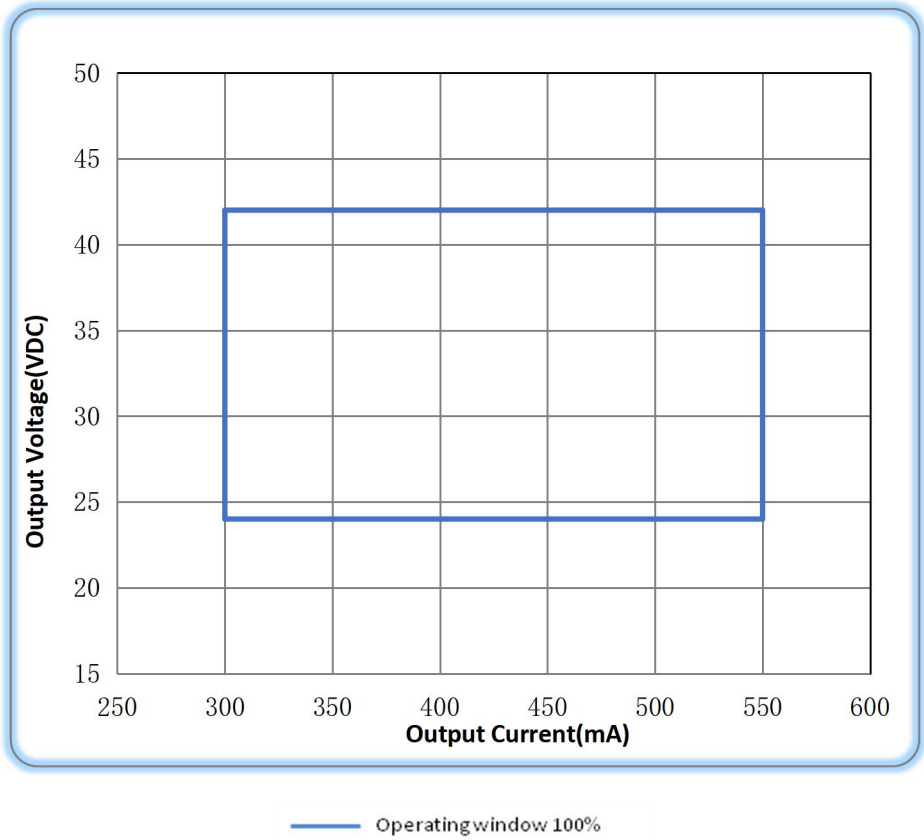
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/10
Specification		Updated	B	2023/06/27

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Manual