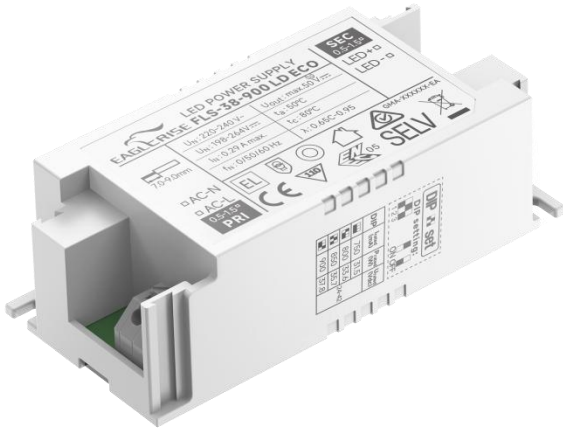


38W Constant Current power supply



■ Approve



Features

- Class II, SELV, built-in/independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.95C
- Efficiency : 89%
- 5 years warranty
- Ip20

Applications

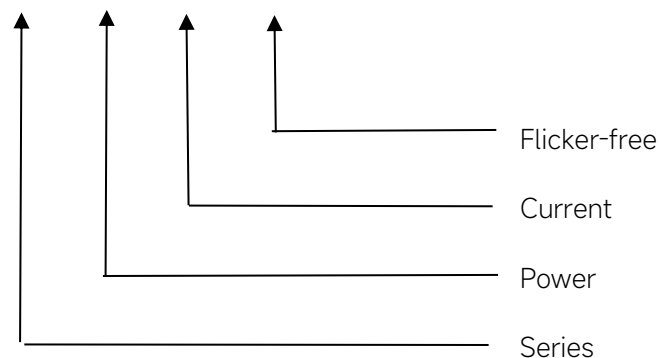
- LED panel, Down light

◆ Description

FLS-38-900 LD ECO is a 38W constant current LED driver with 750 to 900mA 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-38-900 LD ECO



◆ Specification

	Constant Current	750mA	800mA	850mA	900mA	
Output	Voltage Range	24-42VDC				
	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.)	89%				
	Input	Rated input voltage	220-240VAC			
Range of input voltage		198-264VAC				
Frequency(Hz)		50/60 Hz				
Displacement factor		≥0.9				
Power Factor		0.95C				
Input Current max		290mA				
Start-up time		< 0.5S				
No Load Power		≤0.5W				
THD (Typ.)		<7%				
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				
	T _c	80°C				
	Storage Temperature	-40°C~+80°C				
	Life time	> 50000h@T _c =75°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	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>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.</p> <p>3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.</p>
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◆ Parameter

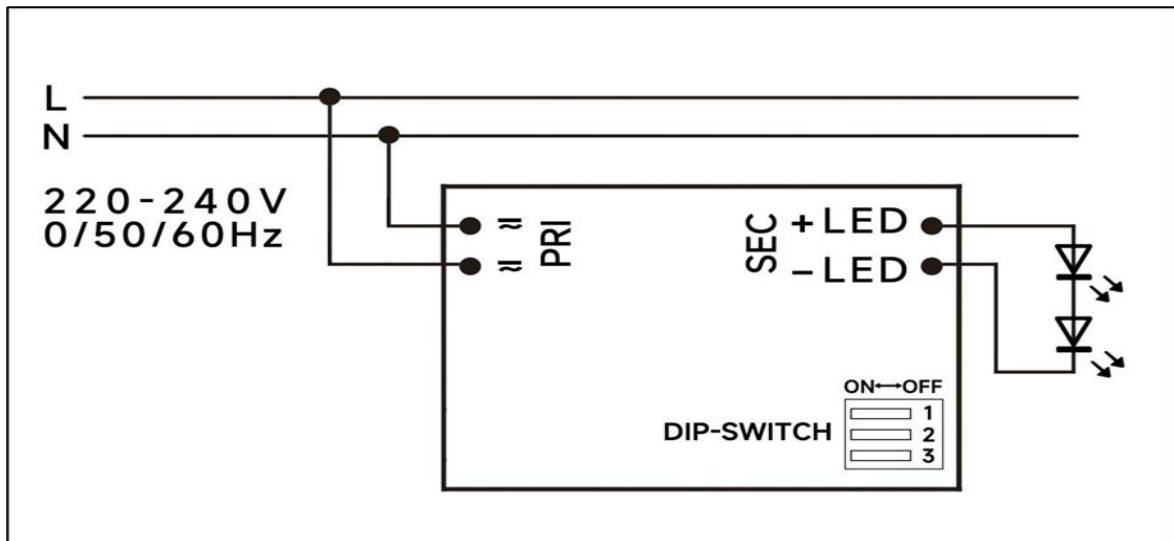
Number	Output	Switch position		
	Current(mA)	1	2	3
1	750mA	--	--	--
2	800mA	ON	--	--
3	850mA	--	ON	--
*4	900mA	--	--	ON

* Factory default

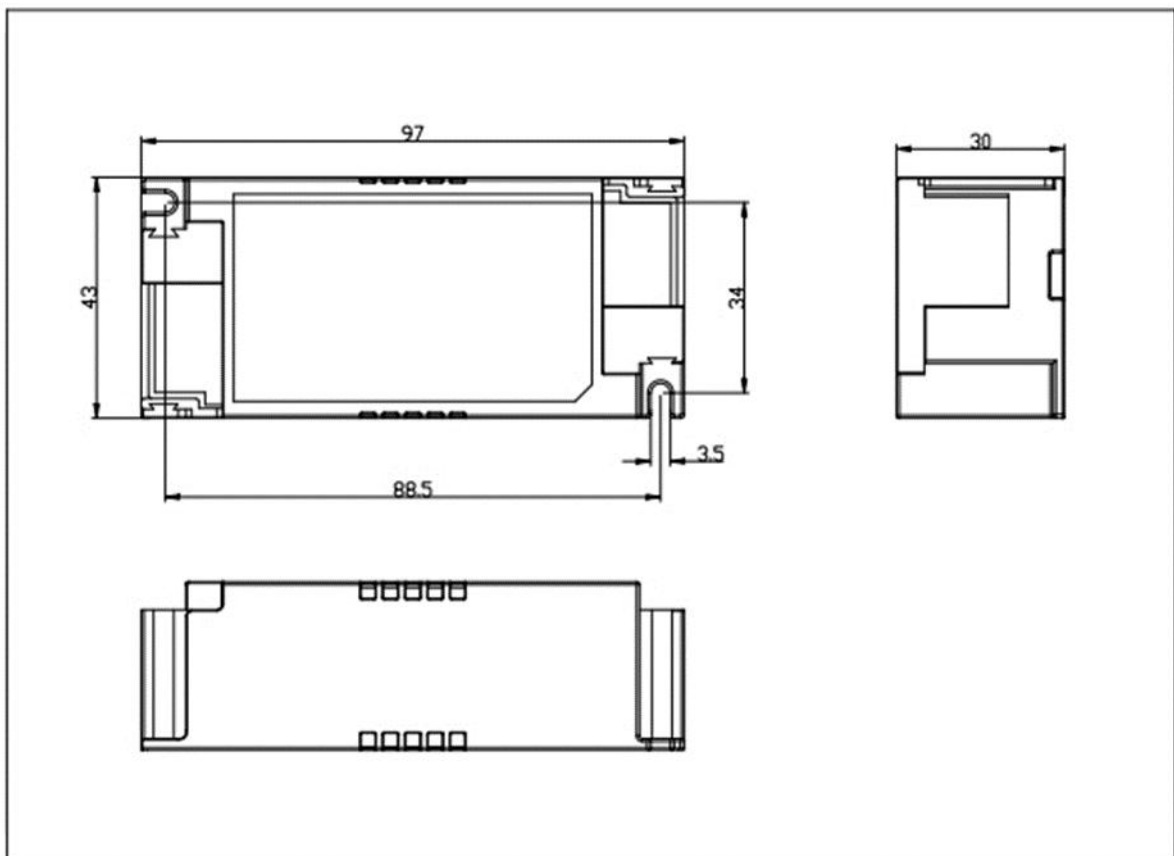
◆ Circuit Breaker

I ^{peak}	T _{width}	B10	B16	B20	C10	C16	C20
18.9A	168μs	26pcs	41pcs	52pcs	27pcs	44pcs	55pcs

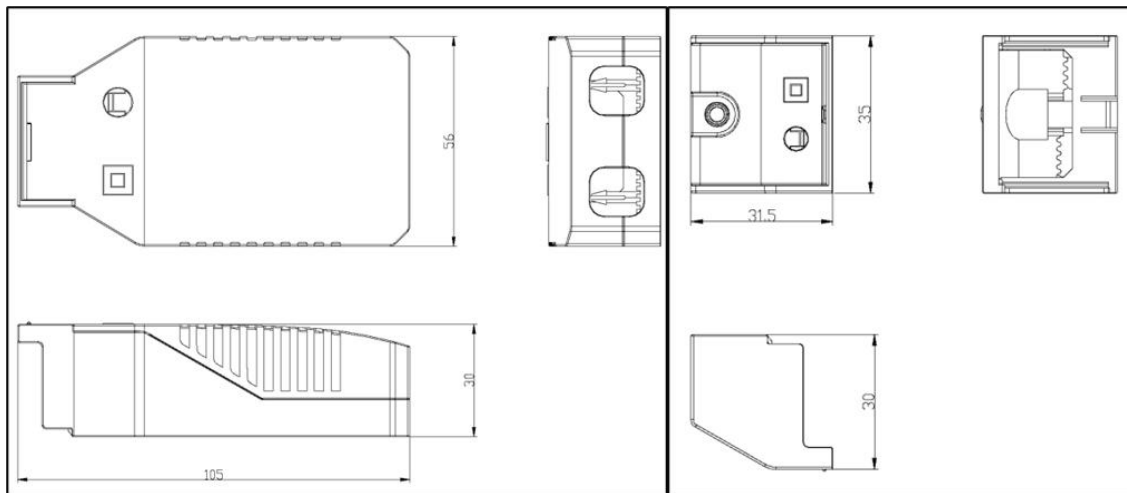
◆ **Wiring diagram**



◆ **2D diagram**



(With side caps)



A caps

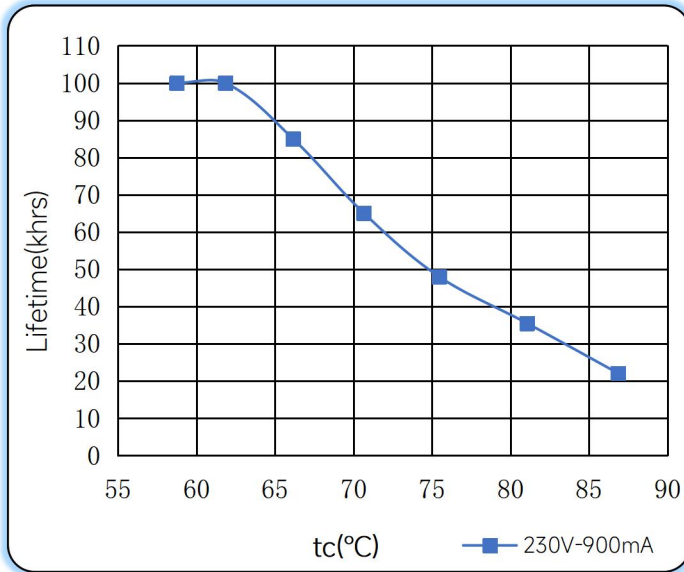
B caps

◆ Wiring & Connections

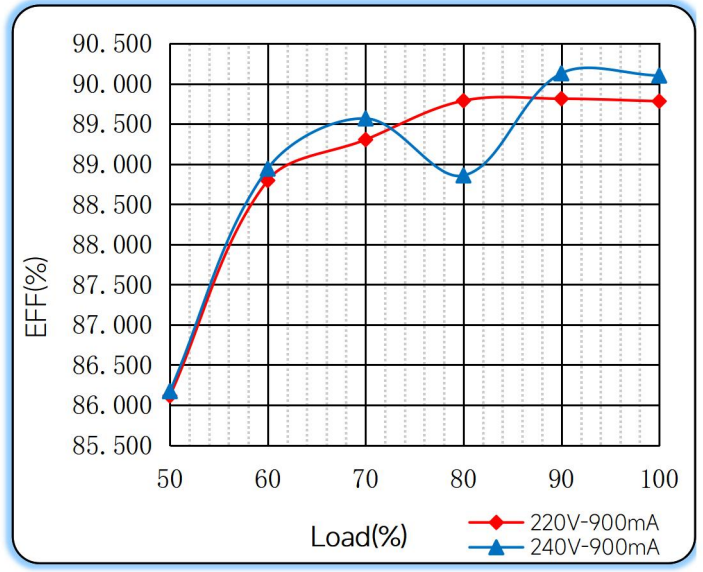
	Specification item	Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge.	16...20 AWG (With A side caps: 14...20 AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire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

◆ Curve for FLS-38-900 LD ECO, $I_o=900mA$

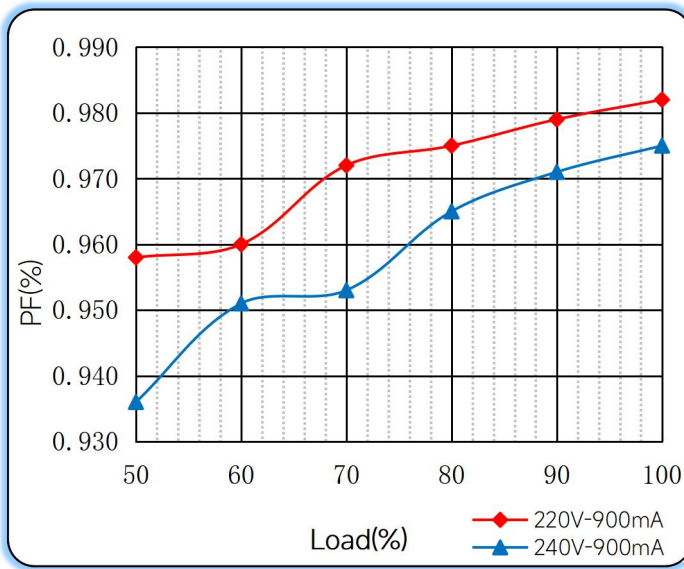
Lifetime vs. Temperature Curve



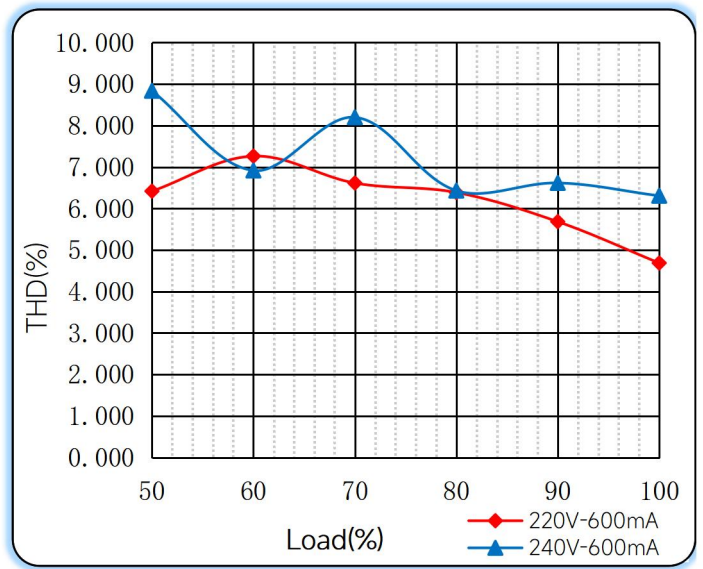
Efficiency vs. Load



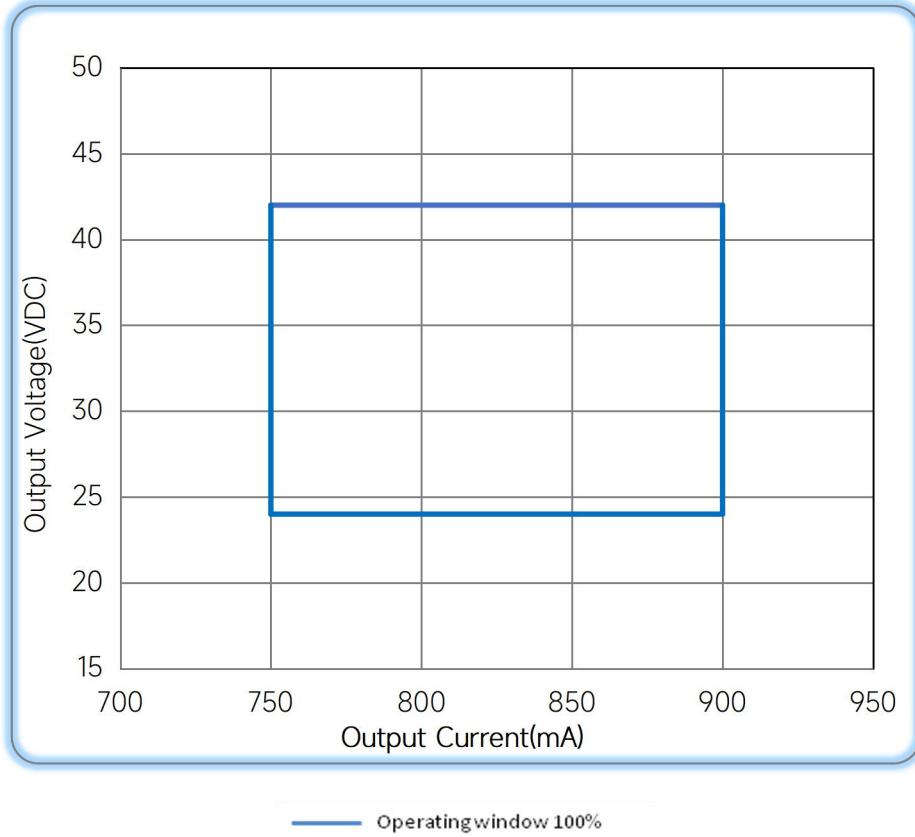
Power Factor Characteristics



THD vs. Load



◆ **Operating window**



◆ **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Circuit Breaker		Updated	B	2023/03/22

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Manual