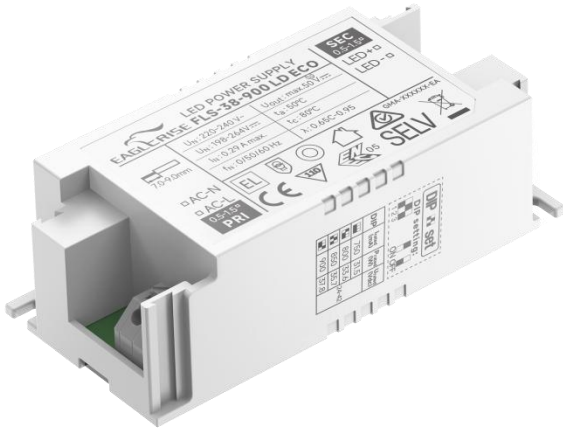


## 38W Constant Current power supply



■ Approve



### Features

- Class II, SELV, built-in/independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.96
- Efficiency : 89%
- 5 years warranty
- Ip20

### Applications

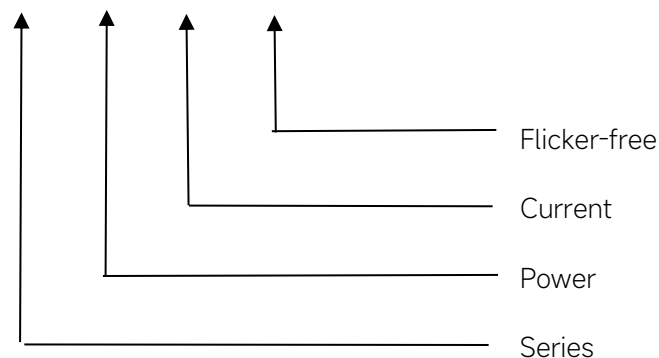
- LED panel, Down light

### ◆ 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 <sub>st</sub>	≤0.5			
	Efficiency(Typ.)	89%			
	Input	Rated input voltage	220-240VAC		
Range of input voltage		198-264VAC			
Rated input voltage(DC)		198-280VDC			
Frequency(Hz)		0/50/60 Hz			
Displacement factor		≥0.9			
Power Factor		0.96			
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			
	YES/Auto Resume				
Environment	Operating Temperature	-25°C~+50°C			
	Humidity	20%-90%RH			
	Tc	80°C			
	Storage Temperature	-40°C~+80°C			
	Life time	> 50000h@Tc=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			

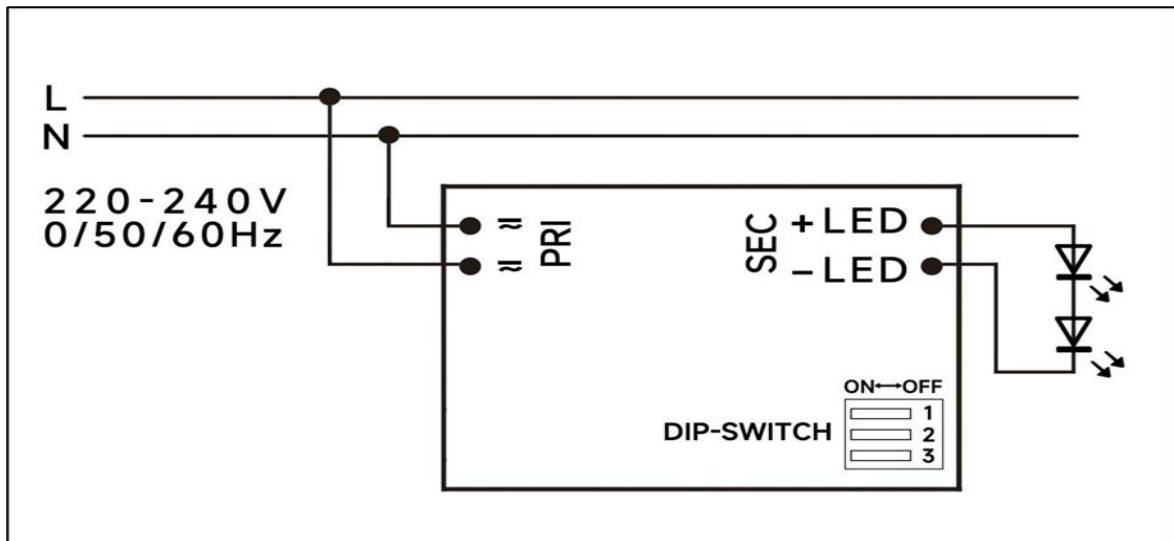
Note	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>2.Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF &amp; 47 uF parallel capacitor.</p> <p>3.The DC input for 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

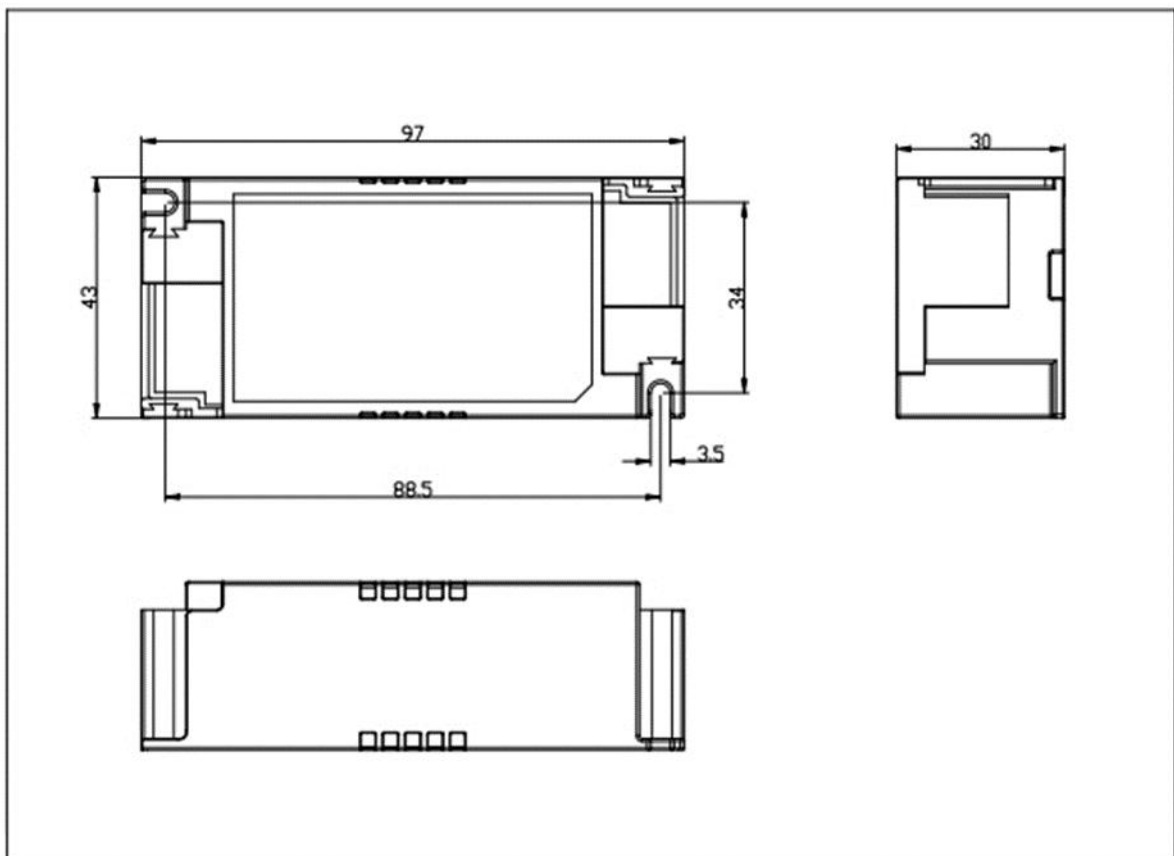
Number	Output	Switch position		
	Current(mA)	1	2	3
1	750mA	--	--	--
2	800mA	ON	--	--
3	850mA	--	ON	--
*4	900mA	--	--	ON

\* Factory default

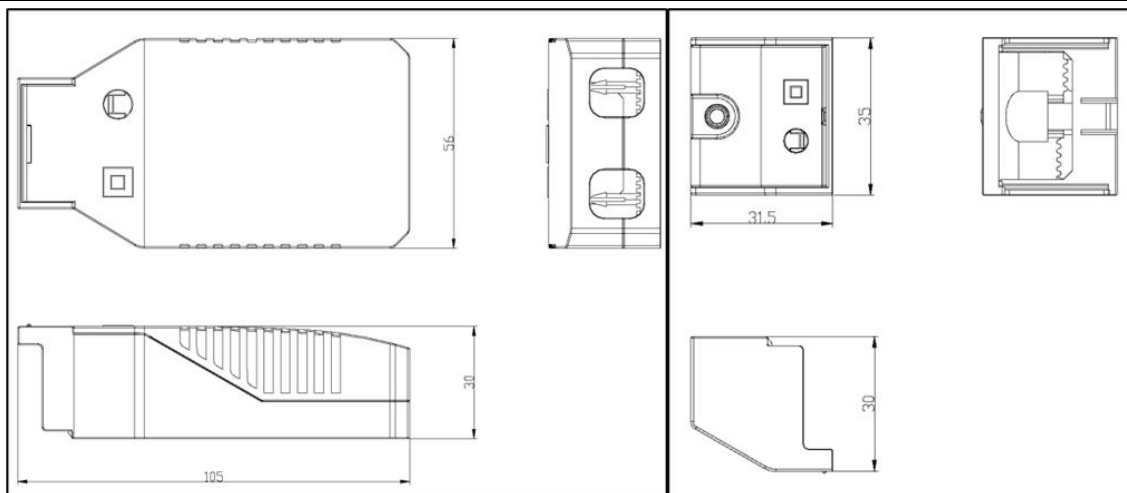
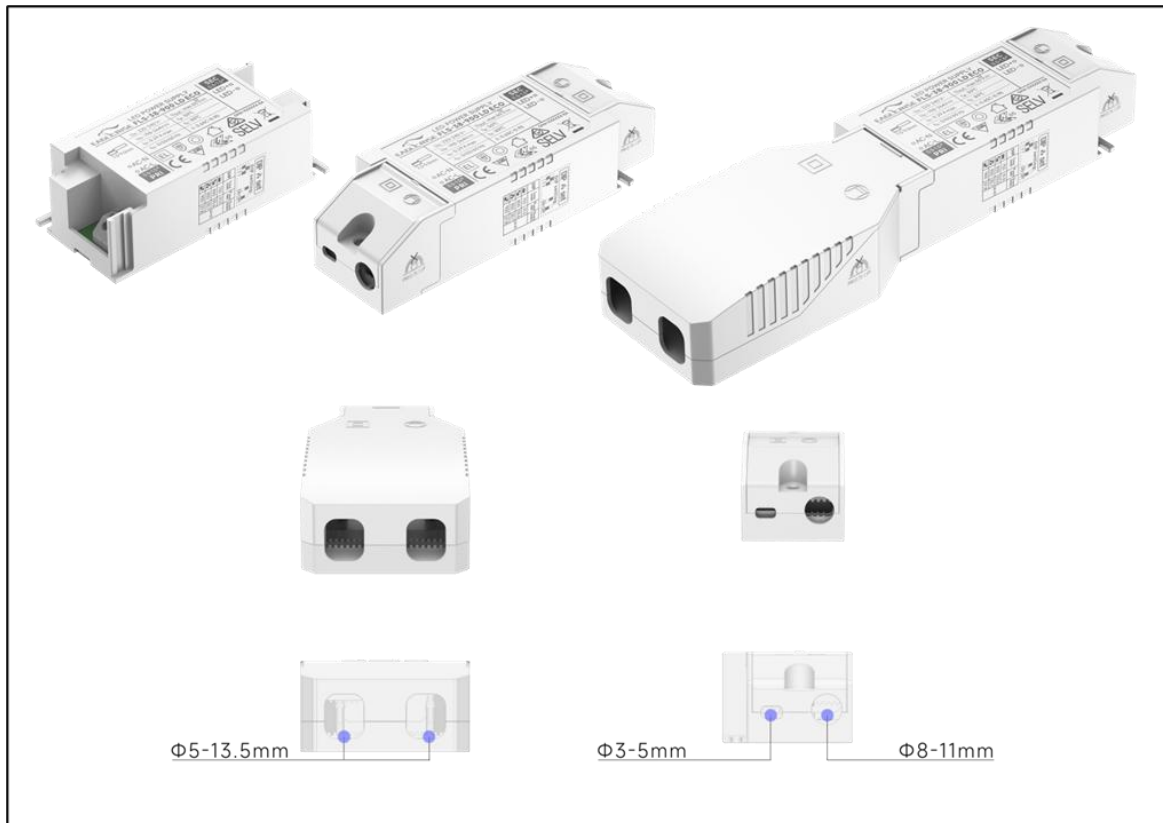
◆ **Wiring diagram**



◆ **2D diagram**



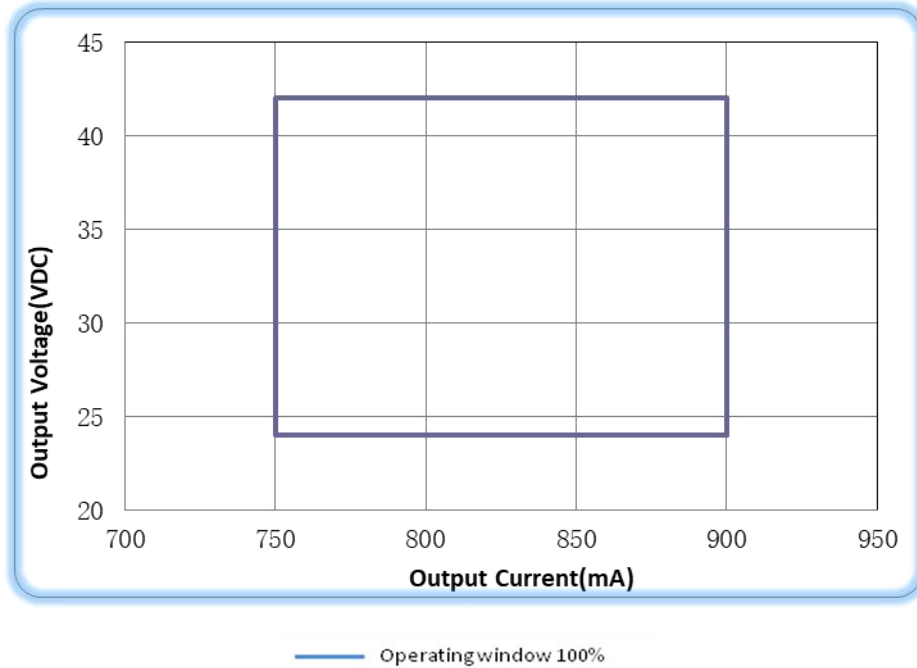
(With side caps)



## ◆ Wiring & Connections

Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	8...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	8...9mm

◆ **Operating window**



◆ **Revision Updates**

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

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