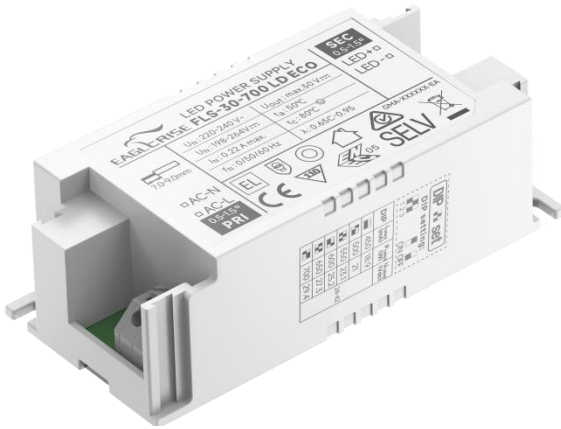


30W Constant Current power supply



■ 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

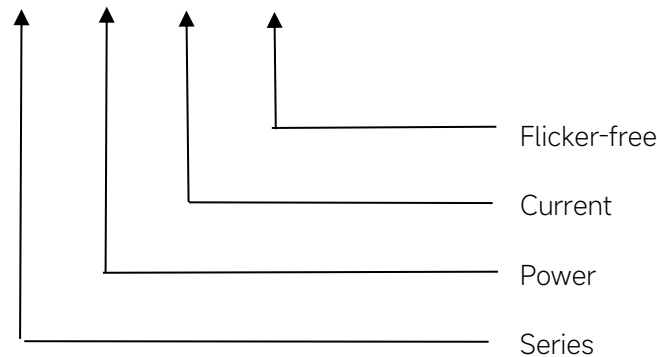
- LED panel, Down light

◆ Description

FLS-30-700 LD ECO is a 30W constant current LED driver with 450 to 700mA 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-30-700 LD ECO



◆ Specification

	Constant Current	450mA	500mA	550mA	600mA	650mA	700mA
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					
Rated input voltage(DC)		198-280VDC					
Frequency(Hz)		0/50/60 Hz					
Displacement factor		≥0.9					
Power Factor		0.96					
Input Current max		220mA					
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	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 & 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

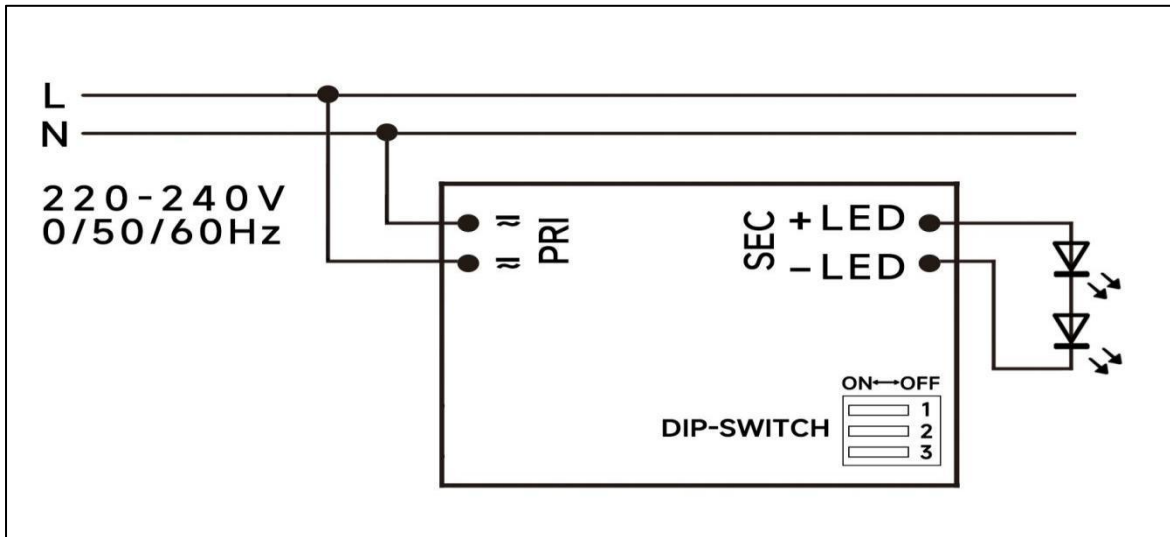
Number	Output	Switch position		
	Current(mA)	1	2	3
1	450mA	--	--	--
2	500mA	ON	--	--
3	550mA	--	ON	--
4	600mA	--	--	ON
5	650mA	ON	--	ON
*6	700mA	--	ON	ON

* Factory default

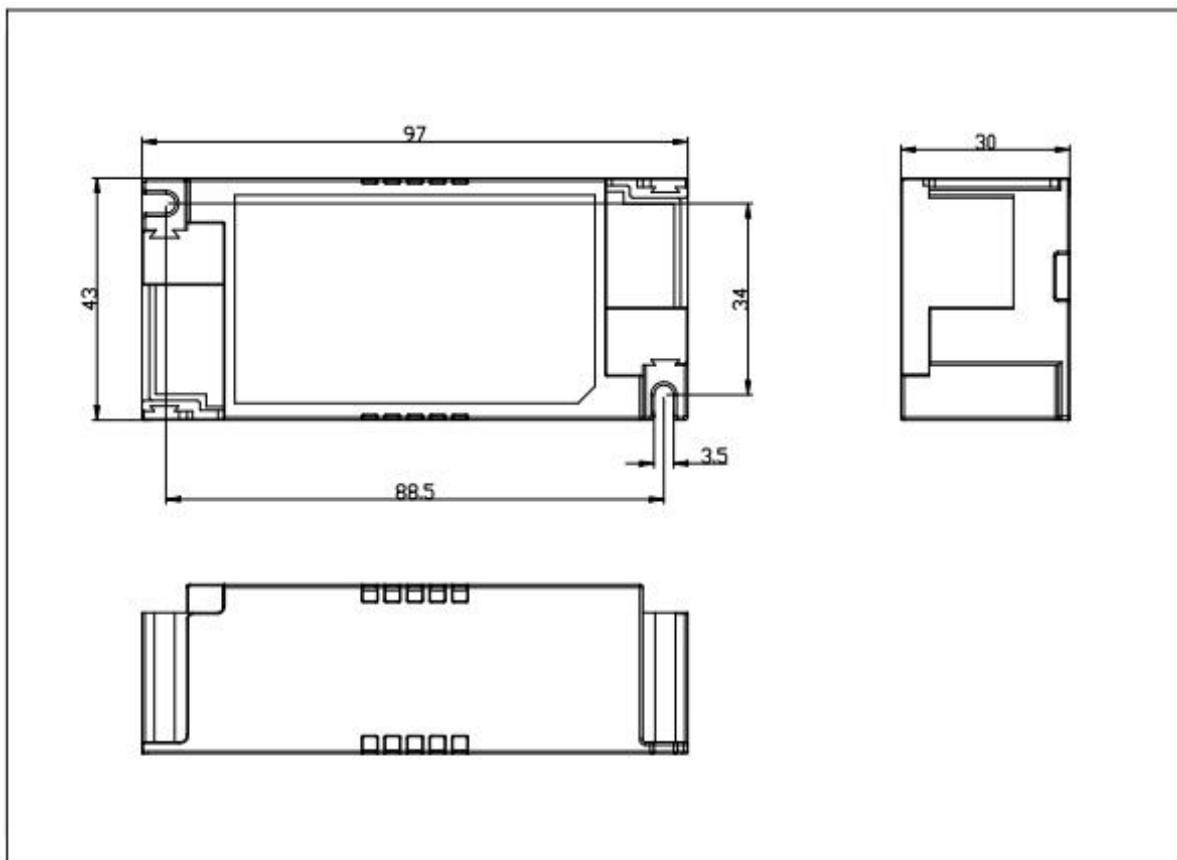
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
22.1A	146μs	25pcs	41pcs	51pcs	36pcs	58pcs	72pcs

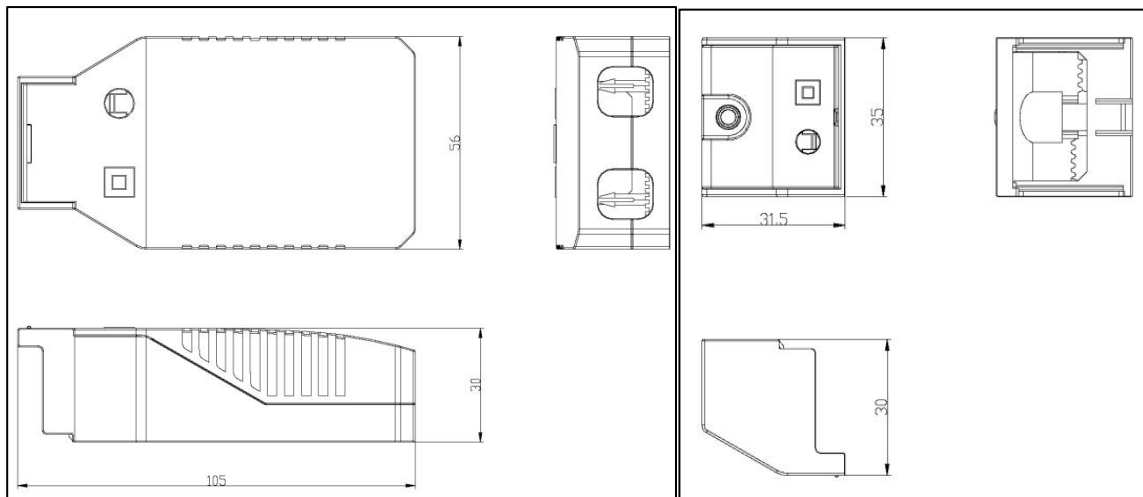
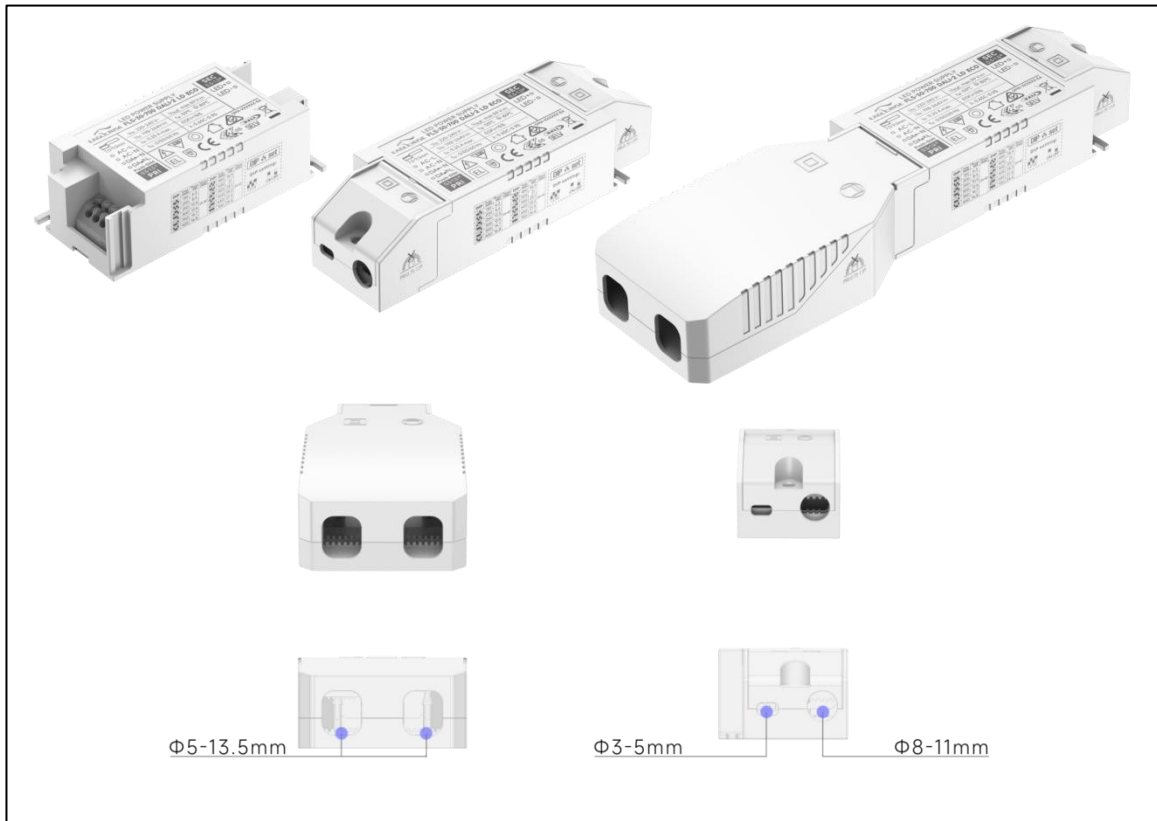
◆ **Wiring diagram**



◆ **2D diagram**



(With side caps)



A caps

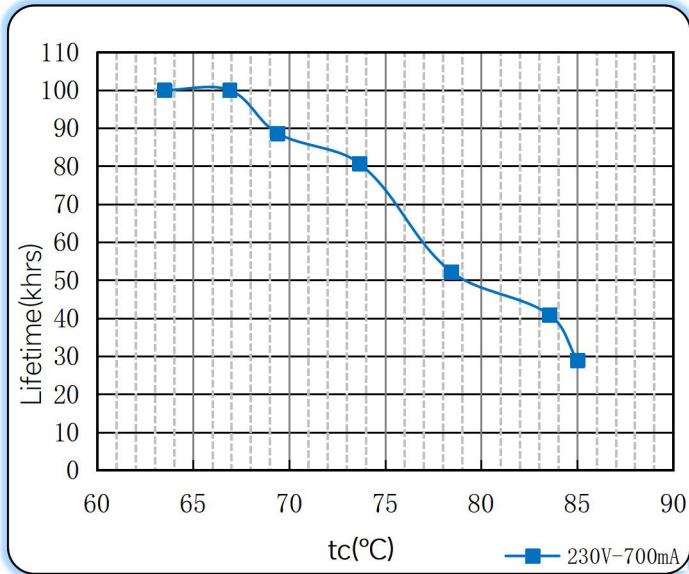
B caps

◆ Wiring & Connections

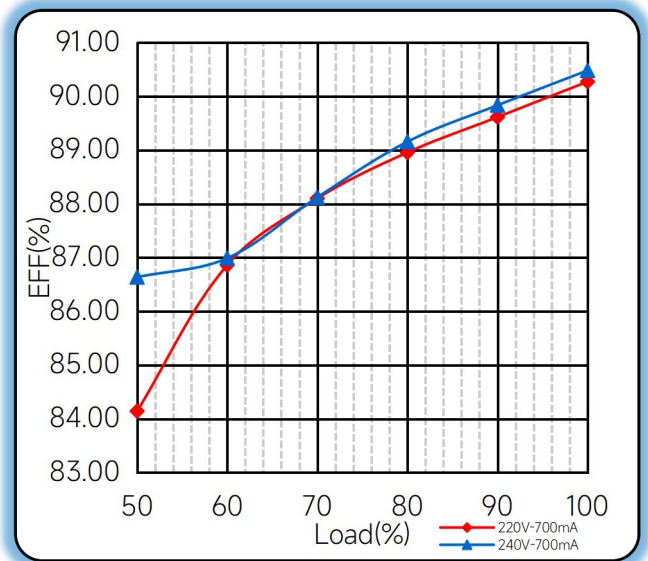
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge.	16...20 AWG (With A side caps: 14...20 AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire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

◆ Curve for FLS-30-700 LD ECO, $I_o=700mA$

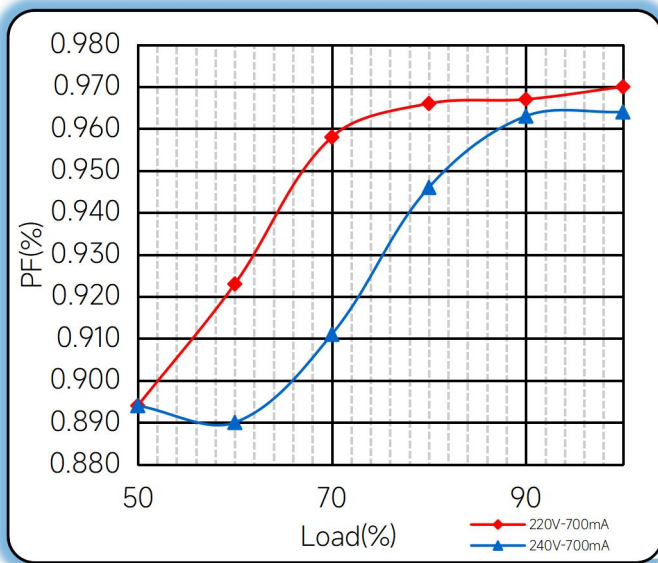
Lifetime vs. Temperature Curve



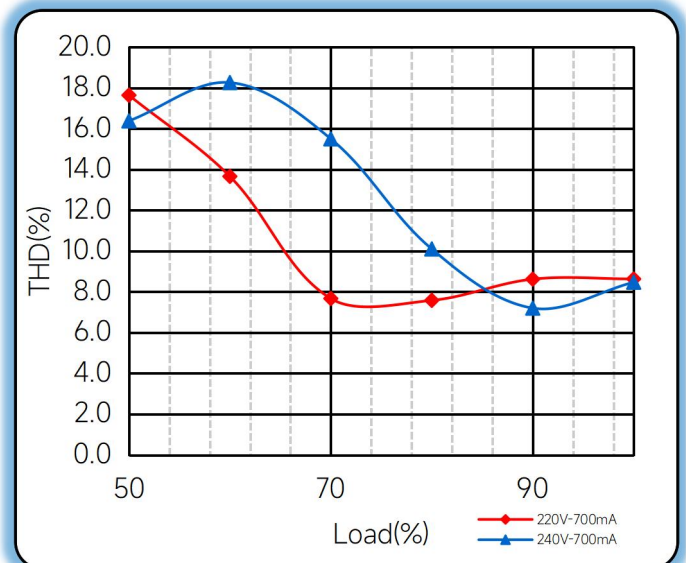
Efficiency vs. Load



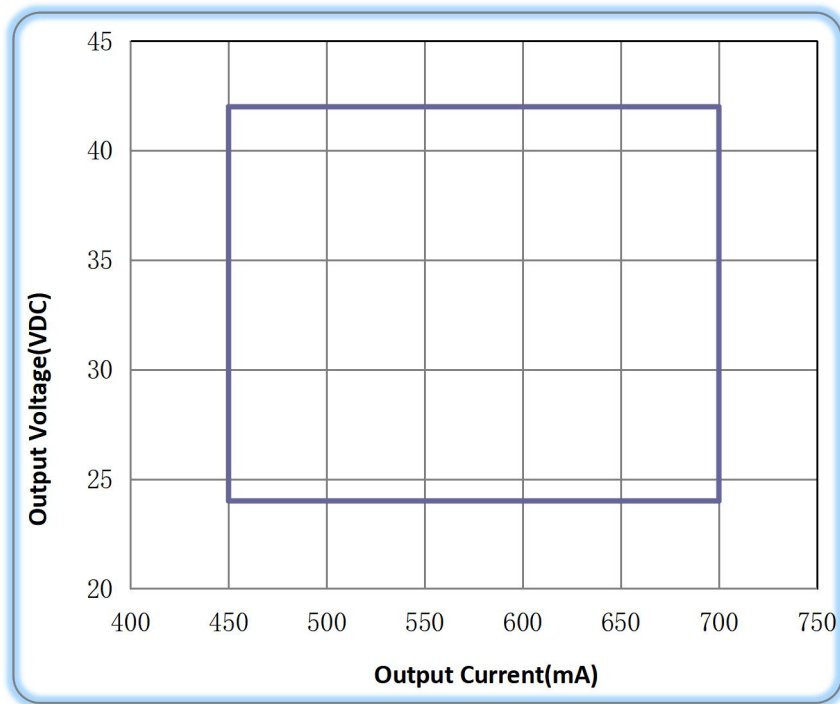
Power Factor Characteristics



THD vs. Load



◆ **Operating window**



— Operating window 100%

◆ **Revision Updates**

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

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Manual