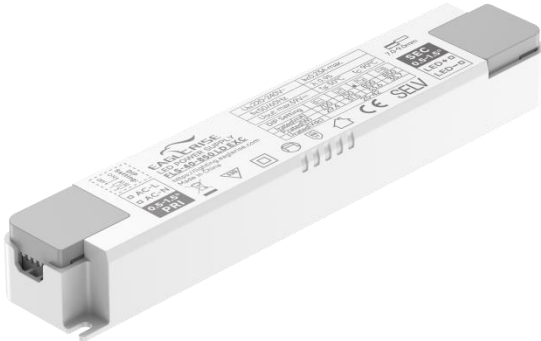


40W Constant Current power supply



■ Approve

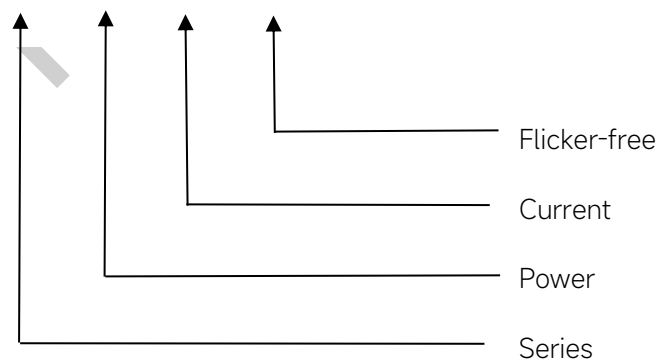
CE CB   SELV

◆ Description

FLS-40-850 LD EXC is a 40W constant current LED driver with 700 to 850mA output current. The output current is adjustable by DIP Switch. With its compact dimensions from 163 x 30 x 21mm. It is easy to integrate in LED Panel, spot and down lights product.

◆ Model code

FLS-40-850 LD EXC



Features

- For luminaires of protection II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OVP/OTP
- Power Factor: 0.95C
- Efficiency: >88%
- 5 years warranty
- IP20

Applications

- LED panel, LED down light

◆ Specification

	Constant Current (mA)	700mA	750mA	800mA	850mA
Output	Voltage Range(VDC)	25-42VDC			
	Unload voltage Max.	59VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	>88%@Full load,230V			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition			
	Frequency(Hz)	50/60 Hz			
	Power Factor	0.95C@Full load,230V			
	Input Current max (mA)	230mA			
	Start-up time	<0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	<10%@Full load,230V			
Protection	Over Load Protection	103-130%			
		YES/Auto Resume			
	Over Voltage Protection	59VDC			
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Capability	Over Temperature Protection	YES/Auto Resume			
	Surge capability (L-N)	1KV			
	Surge capability (L/N-Ground)	NA			
Environment	Operating Temperature	-20°C~+50°C			
	Humidity	20%-90%RH			
	Tc	90°C			
	Storage Temperature	-25°C~+60°C			
	Life time	> 50000h@Tc=90°C			
	Noise	≤20dB(A)@10cm			
Surface	Dimension	163X30X21(LXWXH)mm			
	material	PC			
Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384			

	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-2,3,4,5,6,8,11, EN61547
	ErP	Erp2.0 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.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.	

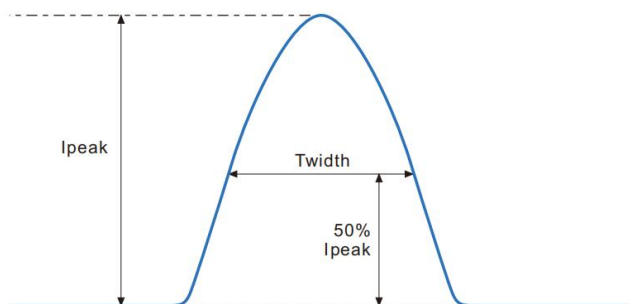
◆ Model list

Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	700mA	25-42VDC	59	29.4	--	--
2	750mA			31.5	ON	--
3	800mA			33.6	--	ON
*4	850mA			35.7	ON	ON

* Factory default

◆ Inrush Current

I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
26.3A	122 μ s	26pcs	42pcs	52pcs	30pcs	49pcs	61pcs

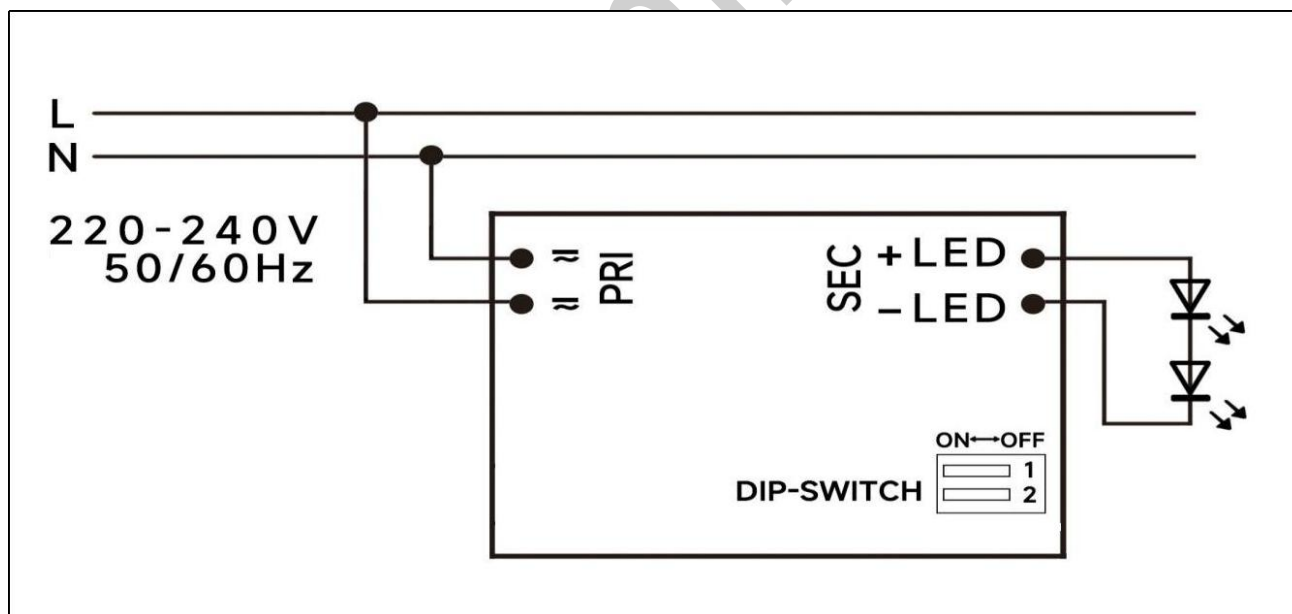


Remarks:

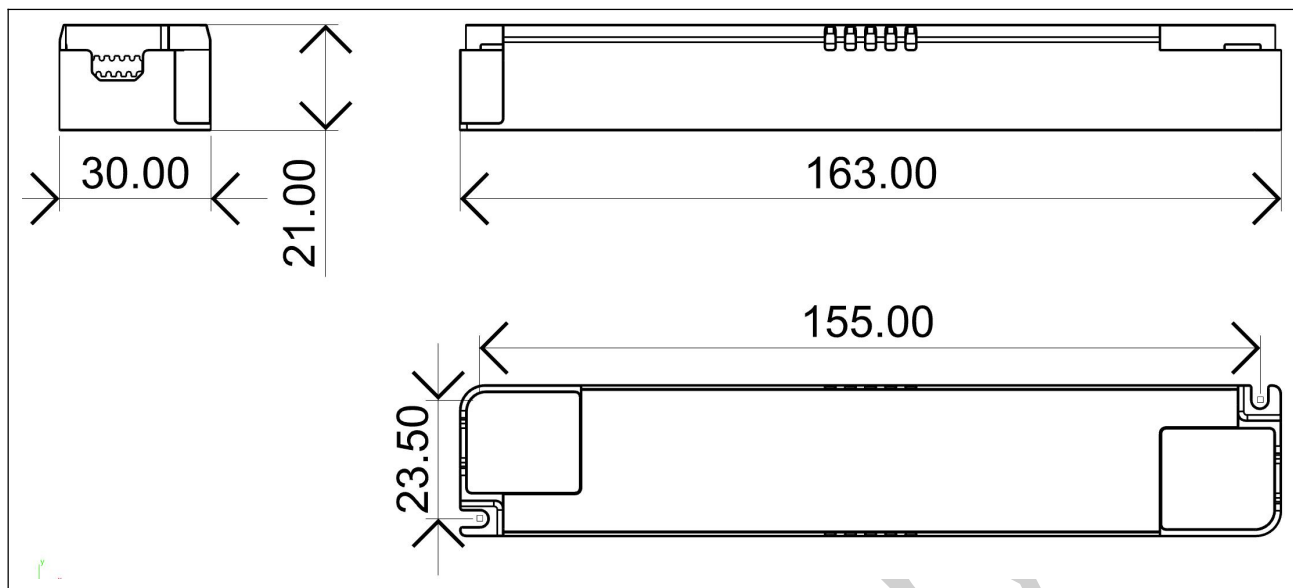
1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

◆ Wiring diagram



◆ 2D diagram



◆ Wiring & Connections

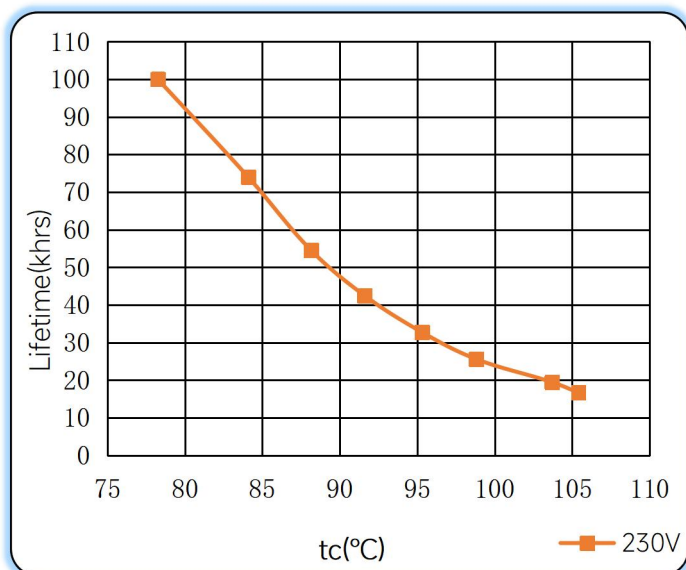
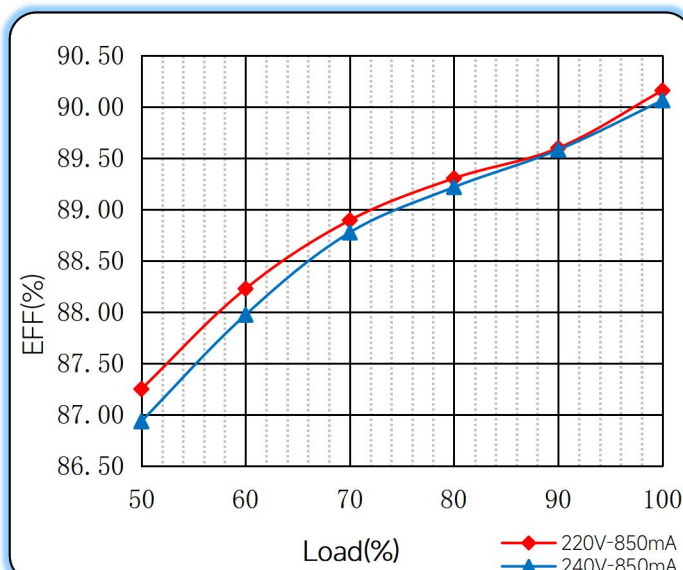
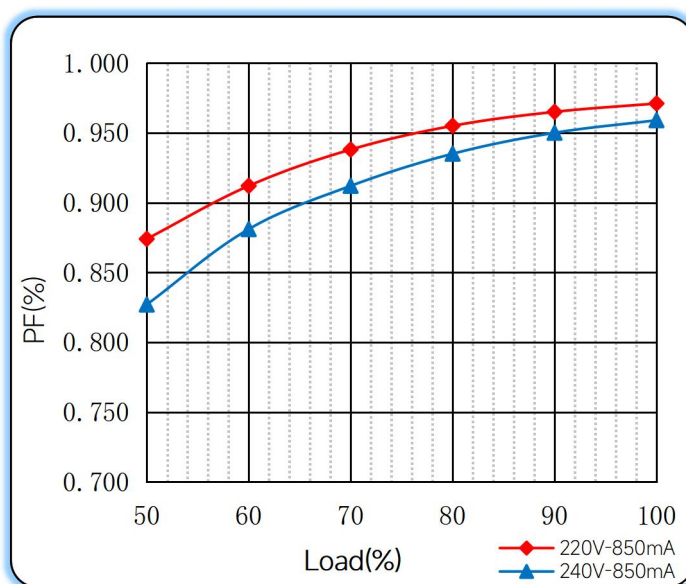
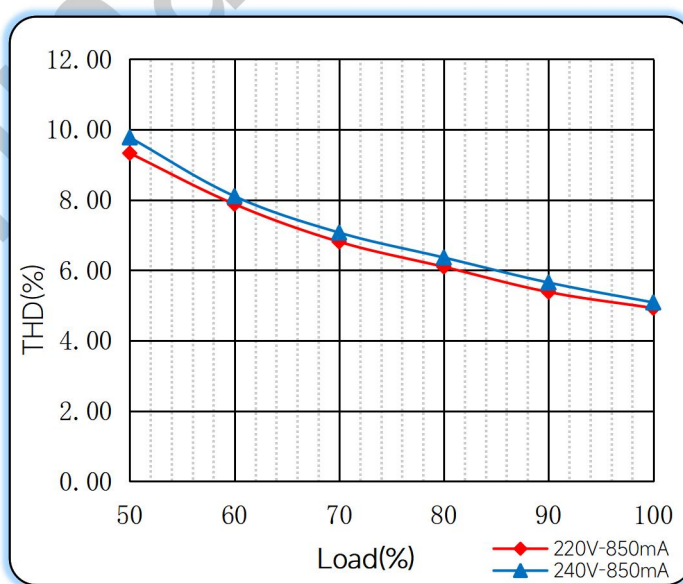
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Recommended wire

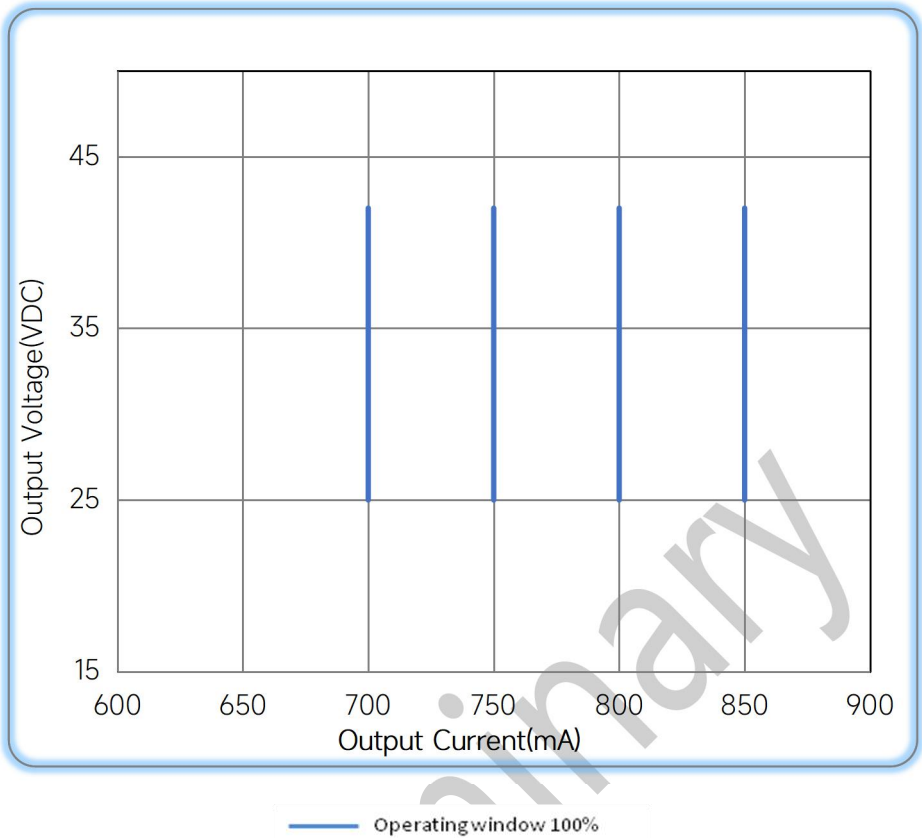
Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Curve for FLS-40-1050 LD EXC, I_o=1050mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/04/03
Power Factor	> 0.95@Full load,230V	0.95C@Full load,230V	B	2024/05/21

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



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Manual