

42W Constant current Dip Switch-FLS Series

FLS-42-1050 LD



■ Approve

SELV CE

■ Features

- Class II, SELV, built-in/independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.95
- Efficiency(Typ.) $\geq 87\%$
- 5 years warranty

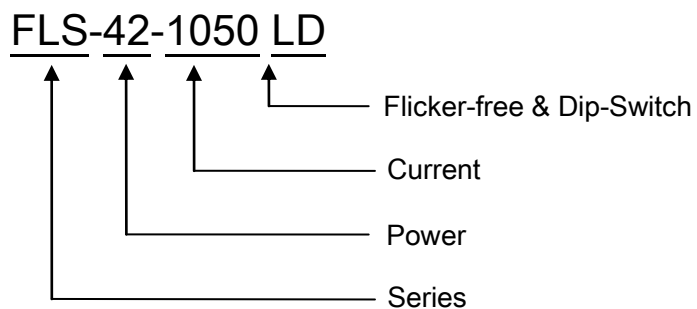
■ Applications

- LED strips
- LED panel
- Down light
- Track spot light

■ Description

FLS-42-1050 LD is a 42W constant current LED driver with 850 to 1050mA output current and a forward voltage range from 28 to 40Vdc. The output current is selectable by DIP Switch. With it's compact dimensions from 97 x 43 x 26mm 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



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■Specification

Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Frequency(Hz)	50/60 Hz
	Power Factor	> 0.95 @220-240Vac, Full load, Io=1050mA
	Input Current max	0.32A MAX. @Full Load,198VAC
	Start-up time	< 0.5S
	Unload Power Consumption	≤0.5W
	Inrush Current	30A Max.
	THD	10% Typ. @Full Load,230VAC, Io=1050mA
	Leakage Current	< 0.5mA(240VAC)
Output	Constant Current *Note.3	850/900/950/1050mA
	Unload voltage Max.	50 VDC
	Voltage Range(VDC).	28-40VDC
	Rated power	42W Max.
	Current Accuracy	±5%@220-240Vac
	Voltage Regulation	±5% @220-240Vac, Full load.
	Load Regulation	±5%@220-240Vac
	Hold-up Time	1s max.@Full Load
	Ripple& Noise *Note.2	±3% @Full Load,240VAC
	Efficiency(Typ.)	≥87%@Full Load,230VAC
Protection	Over Load Protection	103-120% Protection type: Auto Resume
	Over Voltage Protection	> 50VDC Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume
Environment	Operating Temperature	-20°C...+45°C
	tc	85°C
	Storage Temperature	-40°C...+80°C
	Life time	>30,000H@45°C
	Humidity	20%-90%RH
Others	Dimension	With side caps: 131X43X26(LXWXH)mm Without side caps: 97X43X26(LXWXH)mm
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384
	Withstand voltage	Input-Output : 3750V/5mA/1min
	Isolation resistance	Input-Output : ≥4MΩ@500VDC
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —1000V;
Note	1.All parameters NOT specially mentioned are measured at 240VAC input , Io=1050mA, 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.Output current can be from 850mA to 1050mA. Please see Adjustable Output Current with dip-switch below and contact EAGLERISE for details.	

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■Adjustable Output Current with dip-switch

Vo	Po	Io	1	2	3
28-40VDC	34W	850mA	--	--	--
28-40VDC	36W	900mA	ON	--	--
28-40VDC	38W	950mA	--	ON	--
28-40VDC	42W	1050mA	--	--	ON

■Ordering data

An additional order for caps and screws needed if you require them.

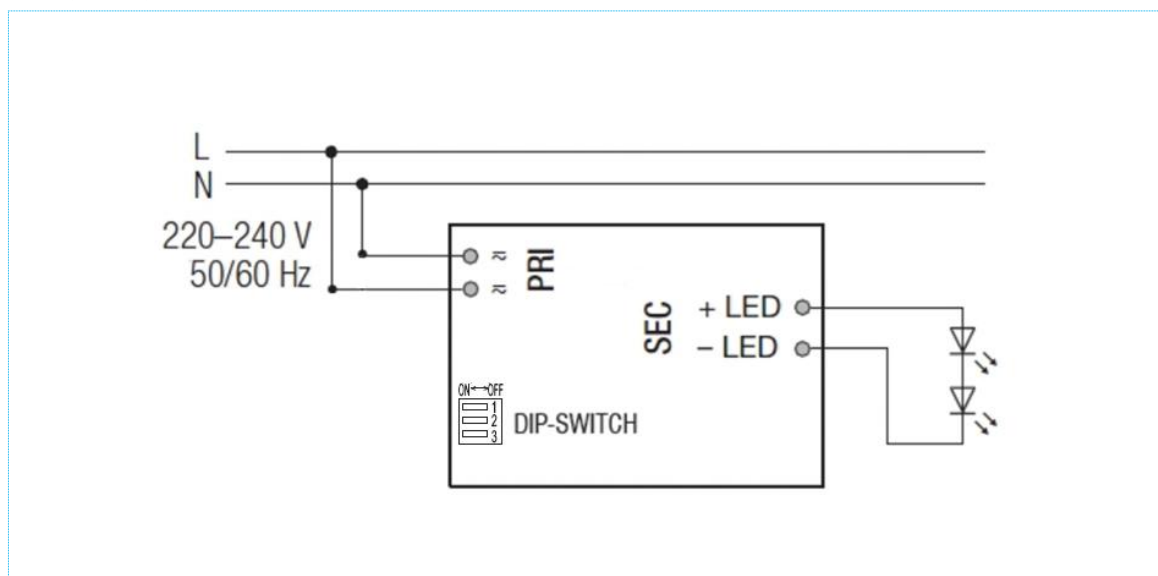


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■Wiring diagram

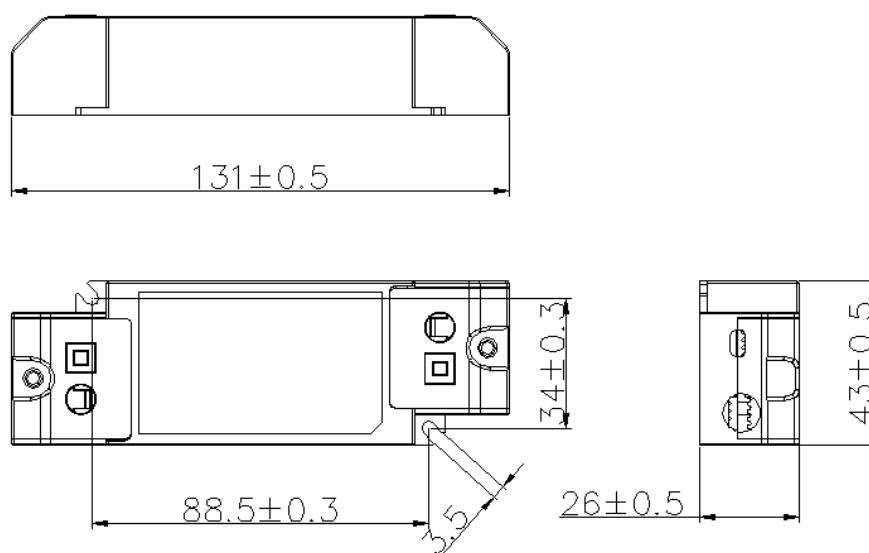


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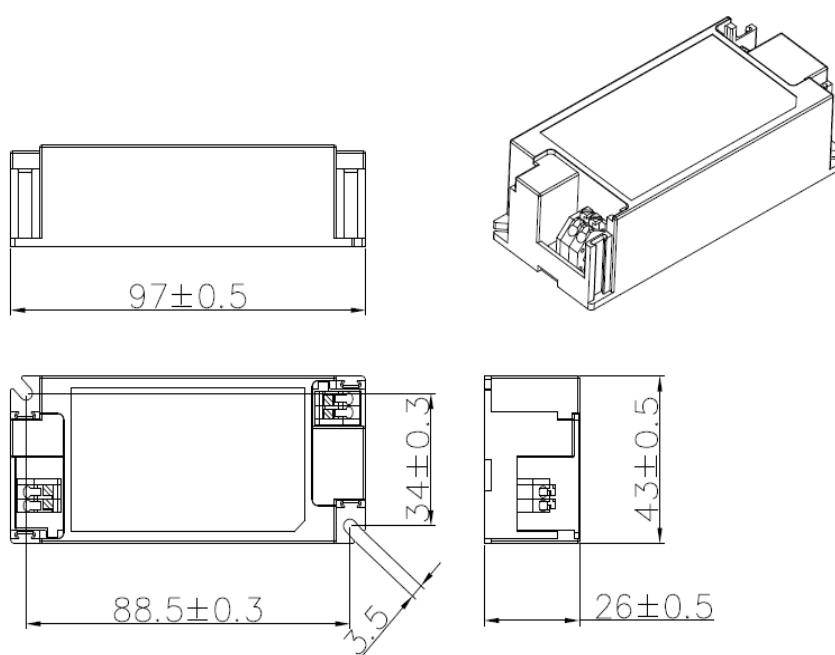
FLS-42-1050 LD

■2D diagram

With side caps



Without side caps

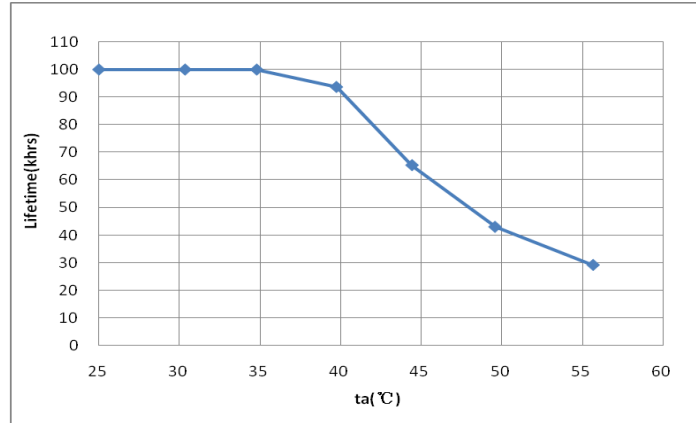


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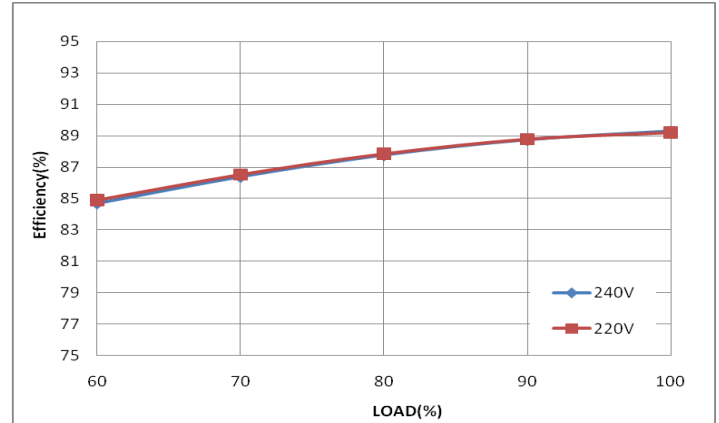
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■Curve for $I_o=1050\text{mA}$

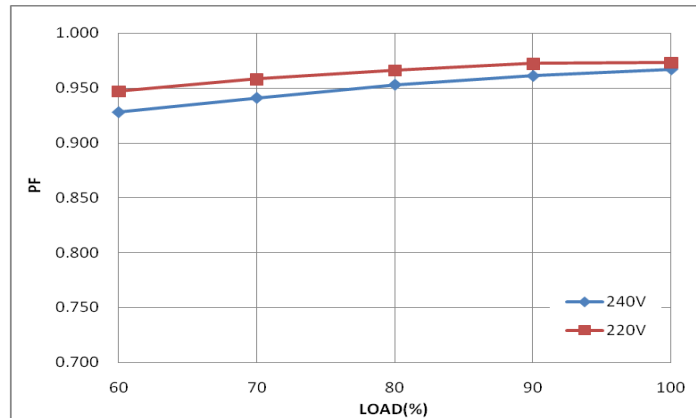
Lifetime vs. Ambient Temperature Curve



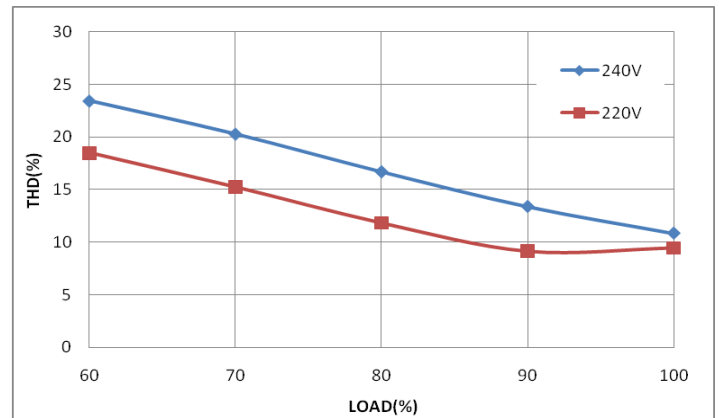
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



■Operating window

