

40W Constant Current DALI-FLS Series

FLS-40-1050 DALI LA



■ Approve

SELV CE

KEMA

05



■ Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.95
- Efficiency $\geq 85\%$
- Support Push Dimming
- 5 years warranty

■ Applications

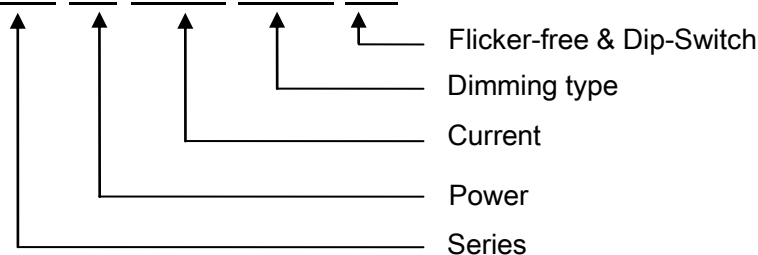
- Down light
- Panel light
- Spot light

■ Description

FLS-40-1050 DALI LA is a 40W constant current LED driver that operates from 176-264Vac input with 700 to 1050mA output current and a forward voltage range from 19 to 38Vdc. The output current is selectable by DIP Switch. With its compact dimensions from 170 x 45 x 30mm it is easy to integrate in down light, panel light and spot light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■ Model code

FLS-40-1050 DALI LA



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■Specification

Input	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	DC voltage range	176-280V
	Frequency(Hz)	0/50/60 Hz
	Power Factor	> 0.95@220-240VAC, full load
	Input Current max	0.32A MAX. @Full Load,176VAC
	Start-up time	< 1S
	Unload Power Consumption	≤0.5W
	Inrush Current	20A Max.
	THD	10% Typ.
	Leakage Current	< 0.5mA(240VAC)
Output	Constant Current Max.	1050mA
	Unload voltage Max.	50 VDC
	Voltage Range(VDC)	19-38VDC
	Rated power	39.9W Max.
	Current Accuracy	±5%
	Voltage Regulation	±5% @Full Load
	Load Regulation	≤5%
	Hold-up Time	1s max.@Full Load
	Ripple& Noise *Note.2	≤63mAp-p@Full Load,240VAC
	Efficiency(Typ.)	≥85%
Dimming	Dimmable	YES
	Dimming mode	DALI, Push
	Dimming current range	2%~100%
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
	Over Temperature protection	NA
Environment	Operating Temperature	-20°C...+45°C
	tc	80°C
	Storage Temperature	-25°C...+60°C
	Life time	> 30,000h@45°C
	Humidity	20%-95%RH
Others	Dimension	125X45X27.5(LXWXH)mm
	Weight	0.15kg/PC
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 , 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.	

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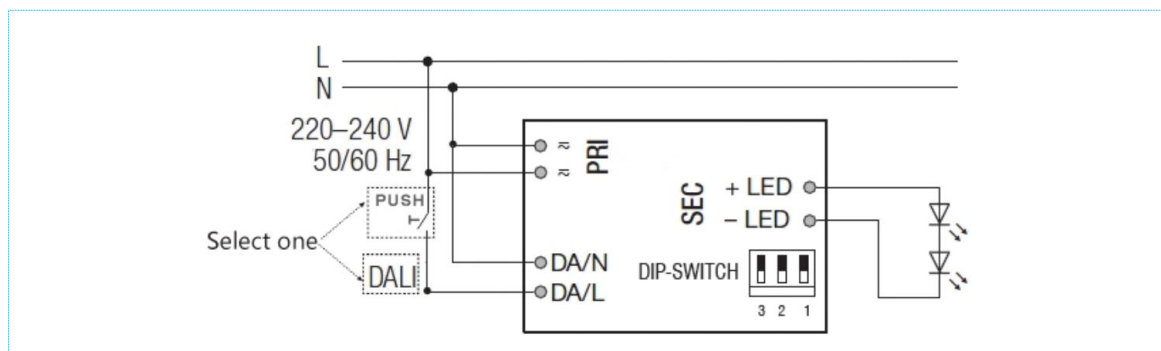
■Adjustable Output Current with dip-switch

Vo	Po	Io	1	2	3
19-38VDC	26.6W	700mA	--	--	--
19-38VDC	30.4W	800mA	ON	--	--
19-38VDC	34.2W	900mA	ON	ON	--
19-38VDC	39.9W	1050mA	ON	ON	ON

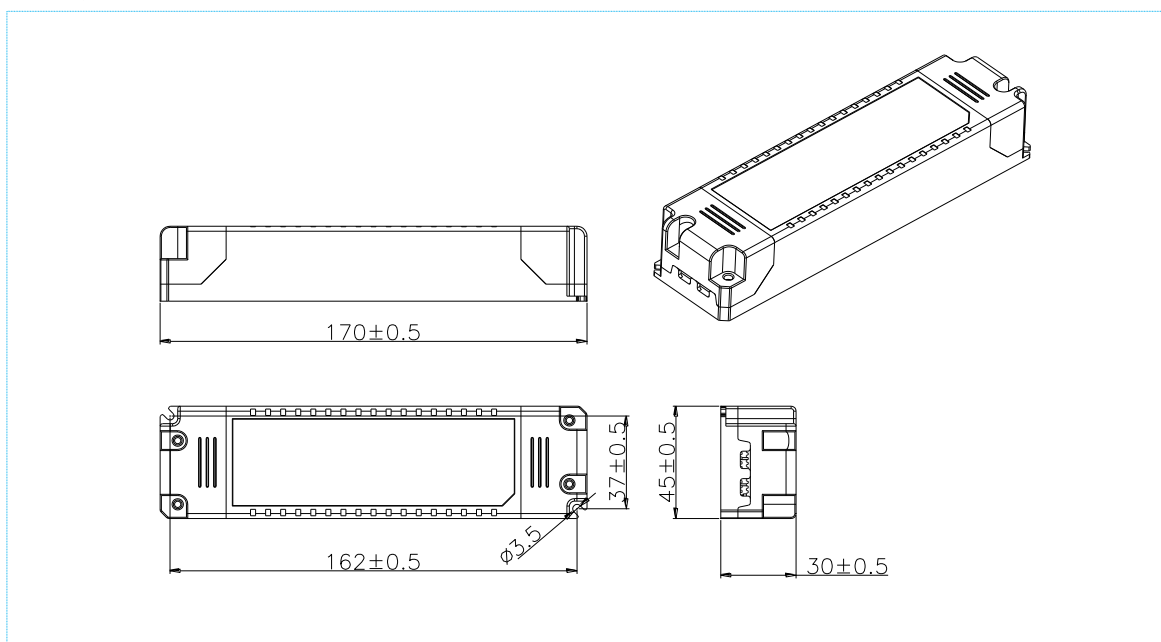
■Ordering data

Type	Pcs/Ctn	G.W.(KG/Ctn)	N.W.(KG/Ctn)	Dimension /Ctn (mm)
FLS-40-1050 DALI LA	60	12.4	11.88	360x285x225

■Connection diagram



■2D diagram

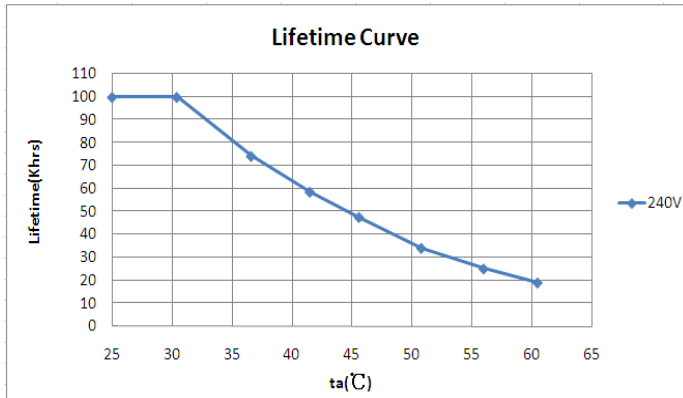


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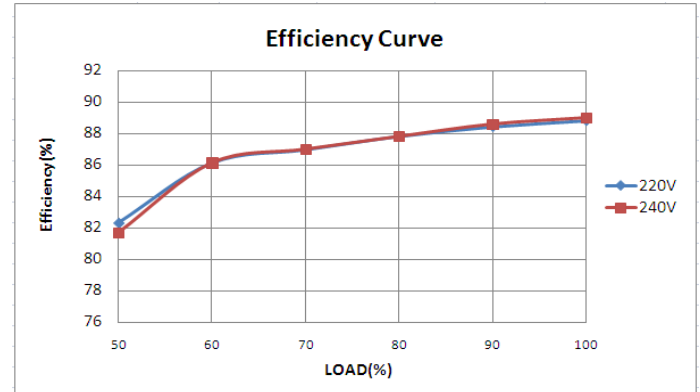
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■Curve for FLS-40-1050 DALI LA , $I_o=1050\text{mA}$

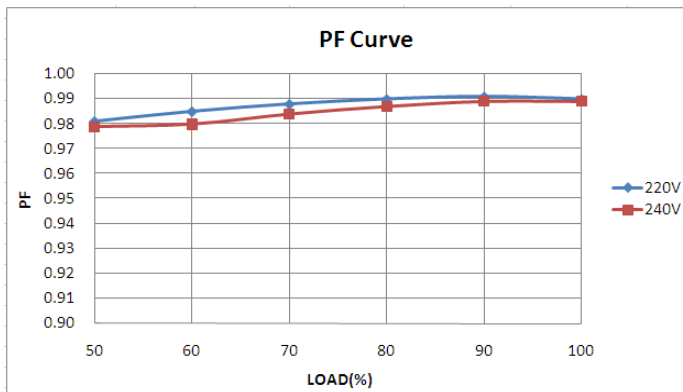
Lifetime vs. Ambient Temperature Curve



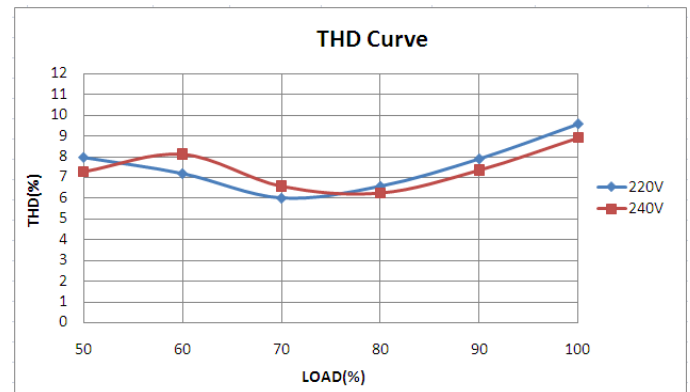
Efficiency vs. Load



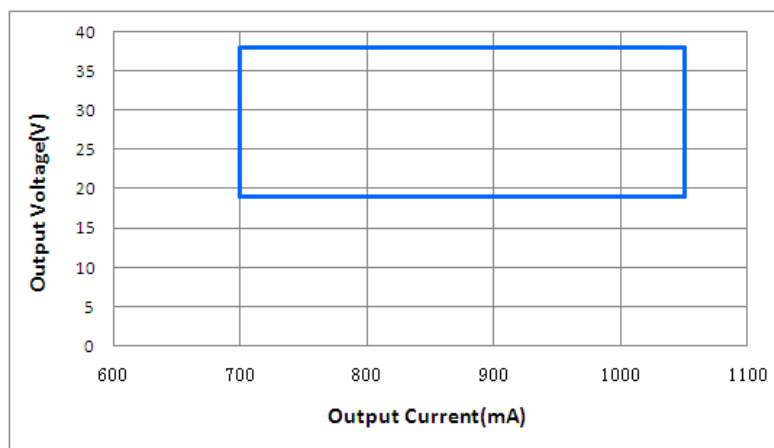
Power Factor Characteristics



THD vs. Load



■Operating window



— Operating window 100%