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44W Constant Current DALI-FLS Series

FLS-44-1050 DALI2-DT8 LD

■Approve

SELV CE

■Features

- Class II, SELV, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor >0.95
- Efficiency ≥86%
- Support DALI II, Push Dimming
- 5 years warranty

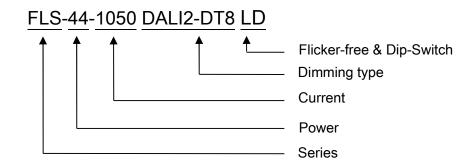
■Applications(Typ.)

- LED panel
- Spot light
- Down light

■Description

FLS-44-1050 DALI2-DT8 LD is a 44W constant current LED driver with 700 to 1050mA output current and a forward voltage range from 9 to 42Vdc. The output current is selectable by DIP Switch. With it's dimensions from 110 X 74 X 30 mm it is easy to integrate in LED Panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■Model code



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■Specification

	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	Rated input voltage(DC)	198-245V
	Range of input voltage(DC)	176-280V
Input	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9@Full load, 240VAC
	Power Factor	> 0.95@220-240VAC, full load
	Input Current max	0.34A MAX. @Full Load,176VAC
	Start-up time	<18
	Unload Power Consumption	≤0.5W@DALI OFF
	Inrush Current	30A Max.
	THD	10% Typ. @Full Load, 240VAC, Io=1050mA
	Leakage Current	< 0.7mA(240VAC)
	Constant Current	700//1050mA
	Unload voltage Max.	60 VDC
Output	Voltage Range(VDC)	9-42VDC
	Rated power	44.1W Max.
	Current Accuracy	±5% @220-240VAC, lo>750mA
	Voltage Regulation	±5% @220-240VAC, full load
	Load Regulation	±5% @220-240VAC
	Hold-up Time	1s max.@Full Load
	Output HF current ripple *Note.2	≤±20% @Full Load,240VAC
	Output LF current ripple(<120Hz)	≤±3% @Full Load,240VAC
	Efficiency(Typ.)	≥86%@Full Load(单色温满载),lo=1050mA,240VAC,Ta=25℃
	P _{st}	≤1@Full Load
	SVM	≤0.4@Full Load
	Standby Power	≤0.5W
	Networked standby power	≤0.5W
	Minimum energy efficiency	≥84%
	Dimmable	YES
Dimming	Dimming mode	DALI II, Push
	Dimming current range	1%~100%
	Over Lead Brotestier	103-120% @lo=1050mA
	Over Load Protection	Protection type: Auto resume(When there is dimming command input)
Protec-	Over Veltage Protection	>60VDC
tion	Over Voltage Protection	Protection type: Auto resume(When there is dimming command input)
	Short circuit Protection	Protection type: Auto resume(When there is dimming command input)
	Over Temperature protection	Protection type: Auto Resume
	Operating Temperature	-20°C+50°C
Environ- ment	tc	90°C
	Storage Temperature	-25°C+60°C
	Life time	>50,000h@50°C
	Humidity	20%-90%RH
Othors	Dimension	110X74X30(LXWXH)mm
Others	Weight	0.182kg/PC
Safety &	Safety standards	EN 61347-1; EN61347-2-13; EN62384
		05.01.2022 Eaglerise 2 of Page

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EMC	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.					

■Adjustable Output Current with dip-switch

Vo	Po	l1+l2	3	2	1
9-42VDC	29.4W	700mA			
9-42VDC	31.5W	750mA			ON
9-42VDC	33.6W	800mA		ON	
9-42VDC	35.7W	850mA		ON	ON
9-42VDC	37.8W	900mA	ON		
9-42VDC	39.9W	950mA	ON		ON
9-42VDC	42.0W	1000mA	ON	ON	
9-42VDC	44.1W	1050mA	ON	ON	ON

^{*}Factory default

■Push dimming operation

Action	Action	LED	Fuction			
Action	duration	status	Brightness button	Color temperature button		
		On	Turn off LED	Turn off LED		
Short push one time		Off	Turn on LED at last brightness and color temperature level or saved brightness and color temperature level if already saved.	Turn on LED at last brightness and color temperature level or saved brightness and color temperature level if already saved.		
	<0.5s	On	Save current brightness and color temperature level. LED flash twice(Max-Min-Max-Min) indicate that driver saved the level successfully.	Save current brightness and color temperature level. LED flash twice(Max-Min-Max-Min) indicate that driver saved the level successfully.		
Short push twice		Off	Delete saved level and dim the brightness and color temperature to be factory default value-100% brightness and (neutral)4000K color temperature.	Delete saved level and dim the brightness and color temperature to be factory default value-100% brightness and (neutral) 4000K color temperature.		
Long push	0.5s-15s	On	Dimming brightness up or down. Every long push changes the dimming direction	Dimming color temperature cool or warm. Every long push changes the dimming direction		
Long push		Off	Turn on LED and dim brightness from min. to max.	Turn on LED at min. brightness level and dim color temperature from cool(6500K) to warm(2700K).		

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Long push	>120s	On & off	brightness for 2mins. The brightness will turn to be 10% within 32s if no action during 2mins max. brightness. Color temperature is at last off level or turn to be saved level if already	Enter Corridor mode — LED keep max. brightness for 2mins. The brightness will turn to be 10% within 32s if no action during 2mins max. brightness. Color temperature is at last off level or turn to be saved level if already saved
Short push five times	<3s	Corridor mode		Quit Corridor mode

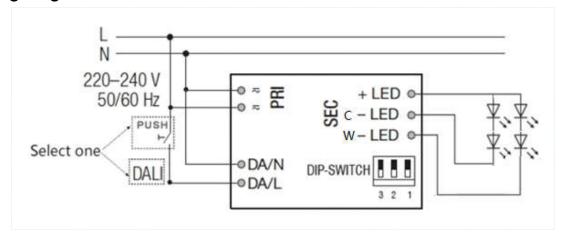
Note:

- 1. The factory default brightness is 100%, color temperature is 4000K
- 2. Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button
- 3. The maximum length of the cable from the push button to the last driver is 200 meters.
- 4. Sync: Long push to ensure all LEDs to be on and then short push one time to turn off. Then Long push Color temperature button to sync all LEDs.

■Ordering data

Type	Pcs/Ctn	G.W.(KG/Ctn)	N.W.(KG/Ctn)	Dimension /Ctn (mm)
FLS-44-1050 DALI2-DT8 LD	20	4.1	3.64	110*74*30

■Wiring diagram



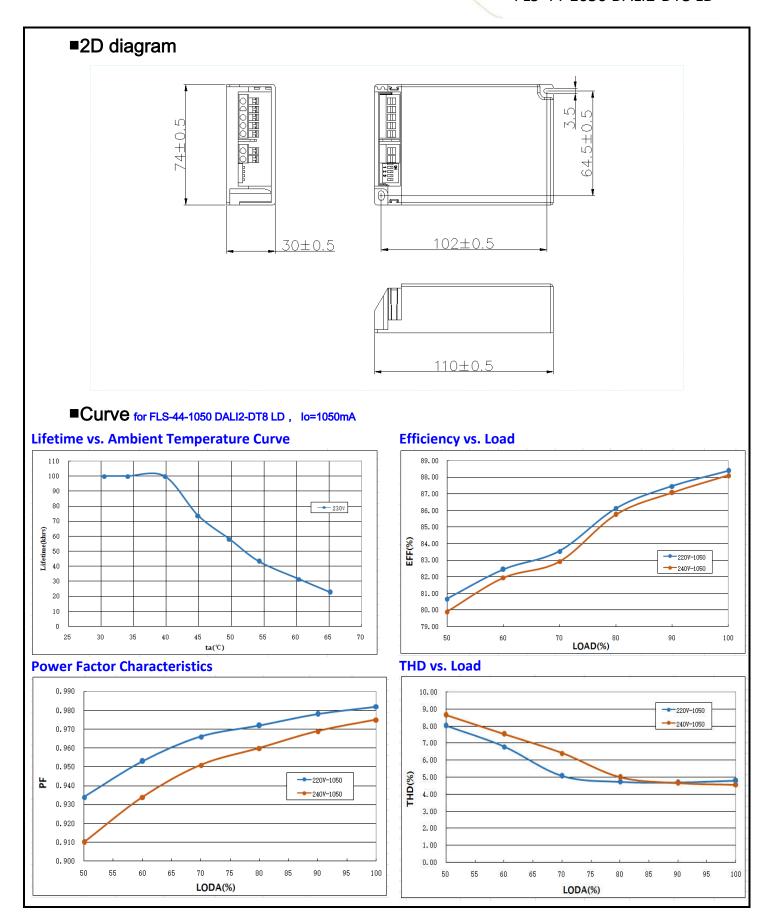
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