

60W DALI + PUSH Dimming power supply



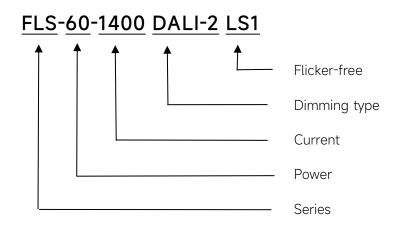
Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor > 0.95
- Efficiency ≥88%
- 2 Slots
- 5 years warranty
- Support DALI-2,Push Dimming Applications
 - LED panel,down light

♦ Description

FLS-60-1400 DALI-2 LS1 is a 60W constant current, 2 slots LED driver with 700 to 1400mA output current and a forward voltage range from 9 to 52Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 180 \times 80 \times 30mm it is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

♦ Model code



Stock code: 002922





◆ Specification

Output	Constant Current (mA)	700	750	800	•••••	1150	1200	1250	1300	1350	1400		
	Voltage Range (VDC)	9-52			i	9-50	9-48	9-46	9-44	9-43			
	Unload voltage Max.	60VDC					4						
	Current Accuracy	±5%											
	Output HF current ripple(≥1KHz)	±10%											
	Output LF current ripple(<120Hz)	±3%											
	SVM	≤0.4											
	P _{st}	ৰ											
	Efficiency(Typ.)	88%											
	Rated input voltage	220-24	0VAC										
	Range of input voltage	198-264VAC											
	Rated input voltage(DC)	198-280VDC											
	Frequency(Hz)	0/50/6	0 Hz										
	Displacement factor	≥0.9											
	Power Factor	>0.95											
Input	Input Current	0.46A											
	Start-up time	< 0.5S											
	No Load Power	<0.5W											
	Standby Power	≤0.5W											
	Network standby power	<0.5W											
	THD (Typ.)	<10%											
	Dimming	YES											
D: :	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push											
Dimming	Dimming depth	1%											
	Dimming current range	1 ~1009	1 ~100%										
	0 1 10	103-120%											
	Over Load Protection	YES/Latch off											
David State	0 VII B:	>60VDC											
Protection	Over Voltage Protection	YES/Latch off											
	Short circuit Protection	YES/La	tch off										
	Over Temperature Protection	YES/Auto Resume											
	Operating Temperature	iting Temperature -20°C~+4											
	Humidity	20%-90%RH											
Environment	Tc	90℃											
	Storage Temperature	-25°C~+60°C											
	Lifetime	>50000h,@Tc=90°C											
Surface	Dimension	180x80)x30 mm						180x80x30 mm				

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FLS-60-1400 DALI-2 LS1

standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;				
041	ErP	EU 2019/2020			
Others	RoHS	RoHS (2011/65/EU) (EU)2015/863			
	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.				
Note	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. The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.				

♦ Parameter

	Output	Switch position				
Number	Current(mA)	1	2	3	4	
1	700	ON				
2	750		ON			
3	800	ON	ON			
4	850			ON		
5	900	ON		ON		
6	950		ON	ON		
7	1000	ON	ON	ON		
8	1050				ON	
9	1100	ON			ON	
10	1150		ON		ON	
11	1200	ON	ON		ON	
12	1250			ON	ON	
13	1300	ON		ON	ON	
14	1350		ON	ON	ON	
15*	1400	ON	ON	ON	ON	

^{*} Factory default

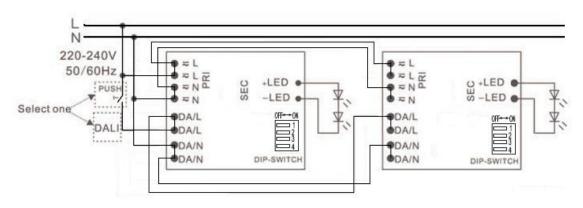
♦ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
8.17A	40.9μ s	17pcs	27pcs	34pcs	17pcs	27pcs	34pcs

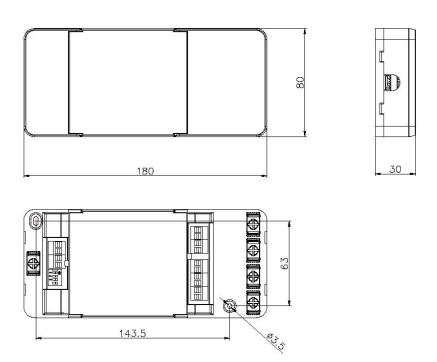
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♦ Wiring diagram



◆ 2D diagram



♦ Wiring & Connections

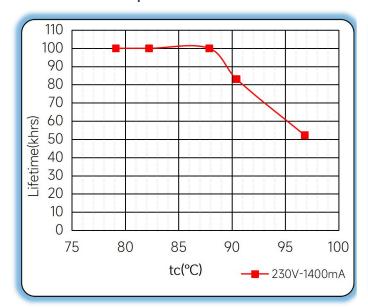
	Specification item	Value (Unit)
Input	Input wire cross-section	0.52.5 mm2
	Input wire gauge.	1620 AWG
	Input wire strip length	89mm
	Output wire cross-section	0.51.5 mm2
Output	Output wire gauge.	1620 AWG
	Output wire strip length	89mm

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◆ Curve for FLS-60-1400 DALI-2 LS1, lo=1400mA

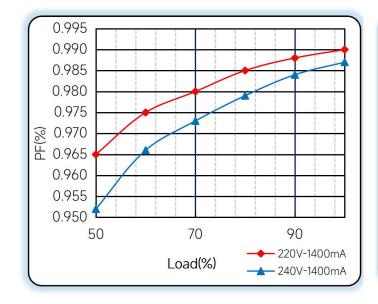
Lifetime vs. Temperature Curve



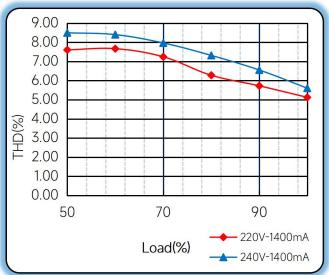
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



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♦ Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push	<0.5s	LED on: Save current brightness level		
twice	<0.58	LED off: Delete saved level and turn on at 100% brightness		
Short push five	<0.Fa	Ouit Consider reads		
times	<0.5s	Quit Corridor mode		
Long push	0.5-14s	Dimming up or down		
Long push	15s-2mins	Sync all LEDs to be 100% brightness		
		Enter Corridor mode - LED keep 100% brightness for 2mins.		
Long push	>2mins	Then brightness will turn to be 10% within 32s if no action during 2mins		
		100% brightness.		

Note:

1. The factory default brightness is at 100%.

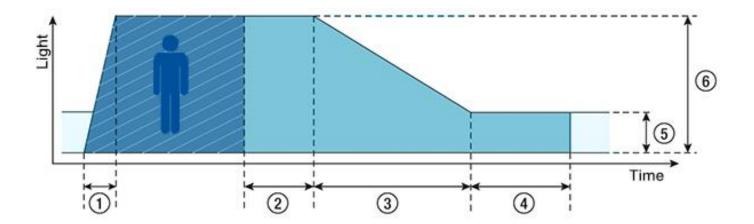
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

3. The maximum length of the cable from the push button to the last driver is 200 meters.

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◆ Corridor mode

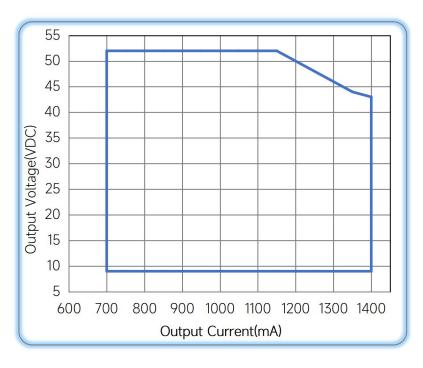


- ◆ Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- ◆ Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- Switch-off delay (Never Off): the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- ◆ Absence value(default: 10 %): the luminous intensity when there is no person present.
- ◆ Presence value (default: 100 %): the luminous intensity when persons are present.

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♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/04

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Manual

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