

60W Constant Current DALI2-FLS Series

FLS-60-1400 DALI2 LS1

■ Approve

SELV CE

■ Features

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

■ Applications(Typ.)

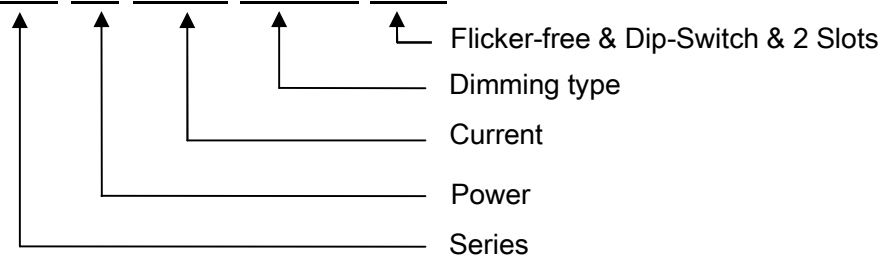
- LED strips
- LED panel
- Spot light
- Down light

■ Description

FLS-60-1400 DALI2 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 selectable by DIP Switch. With it's dimensions from 180 x 80 x 30mm 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

Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	DC voltage range	198-254V
	Frequency(Hz)	0/50/60 Hz
	Power Factor	>0.95@220-240VAC, full load
	Displacement factor	≥0.9
	Input Current max	0.46A MAX. @Full Load,198VAC(Please see Model list below for details)
	Start-up time	<1S
	Unload Power Consumption	≤0.5W
	Inrush Current	30A Max./50μs@ Full Load, 230VAC , 50%Ipk-50%Ipk
	THD	< 10%.@Full Load,240VAC
	Leakage Current	< 0.7mA(240VAC)
Output	Constant Current	700/.../1400mA
	Unload voltage Max.	60VDC
	Voltage Range(VDC)	9-52VDC
	Rated power	60W 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
	Output HF current ripple *Note.2	≤±10% @Full Load,240VAC
	Output LF current ripple(<120Hz)	≤±3% @Full Load,240VAC
	Efficiency(Typ.)	≥86%
Dimming	Dimmable	YES
	Dimming mode	DALI II, Push
	Dimming current range	I _o ≥1000mA : 1%~100% ;
Protection	Over Load Protection	103-120% Protection type: Latch off
	Over Voltage Protection	> 60VDC Protection type: Latch off
	Short circuit Protection	Protection type: Latch off
	Over Temperature Protection	Protection type: Auto Resume
Environment	Operating Temperature	-20°C...+45°C
	tc	90°C
	Storage Temperature	-25°C...+60°C
	Life time	> 50,000h@ta=45°C, 230VAC
	Humidity	20%-90%RH
Others	Dimension	180X80X30(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;

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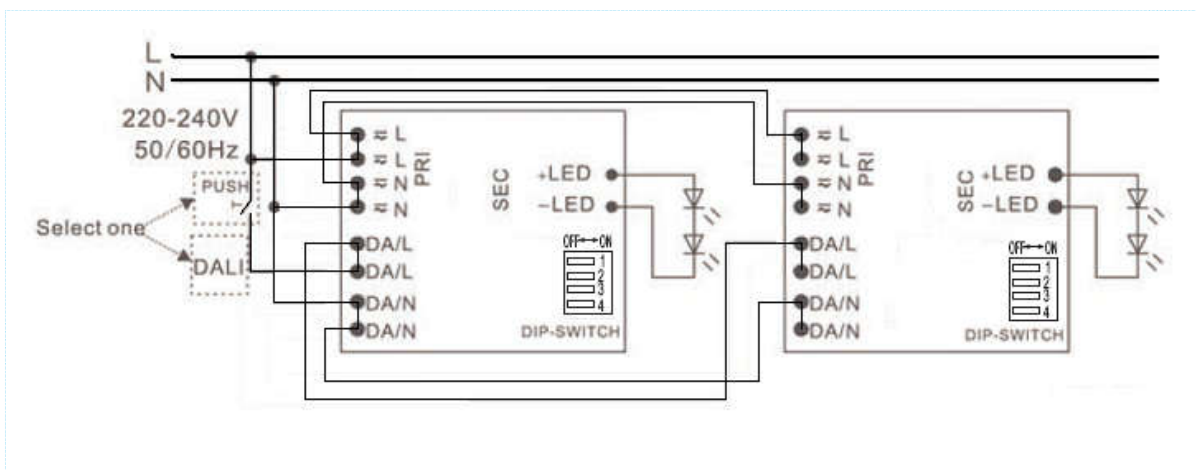
FLS-60-1400 DALI2 LS1

Note	1.All parameters NOT specially mentioned are measured at 240VAC input , full load , $I_o=1050\text{mA}$ 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 $0.1\mu\text{F}$ & $47\mu\text{F}$ parallel capacitor.
	3.Output current can be from 700mA to 1400mA and increasing in multiples of 50mA . Please see Model list below and contact EAGLERISE for details.

Adjustable Output Current with dip-switch

Vo	Po	Io	1	2	3	4
9-52VDC	36.4W	700mA	ON	--	--	--
9-52VDC	39W	750mA	--	ON	--	--
9-52VDC	41.6W	800mA	ON	ON	--	--
9-52VDC	44.2W	850mA	--	--	ON	--
9-52VDC	46.8W	900mA	ON	--	ON	--
9-52VDC	49.4W	950mA	--	ON	ON	--
9-52VDC	52W	1000mA	ON	ON	ON	--
9-52VDC	54.6W	1050mA	--	--	--	ON
9-52VDC	57.2W	1100mA	ON	--	--	ON
9-52VDC	59.8 W	1150mA	--	ON	--	ON
9-50VDC	60W	1200mA	ON	ON	--	ON
9-48VDC	60W	1250mA	--	--	ON	ON
9-46VDC	59.8W	1300mA	ON	--	ON	ON
9-44VDC	59.4W	1350mA	--	ON	ON	ON
9-43VDC	60.2W	1400mA	ON	ON	ON	ON

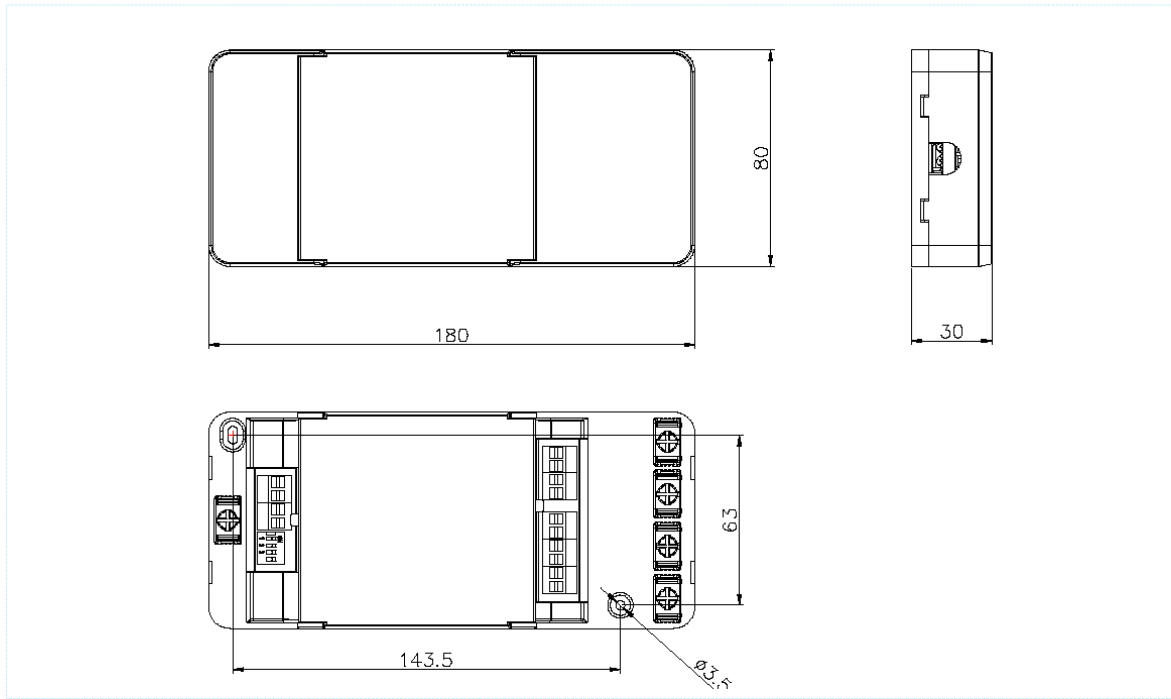
Wiring diagram



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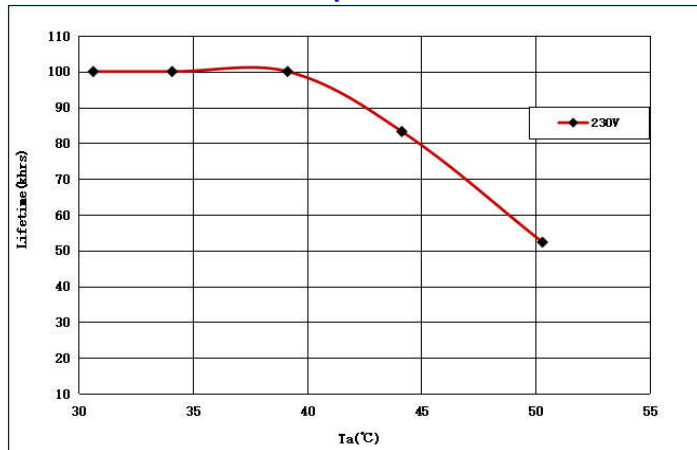
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2D diagram

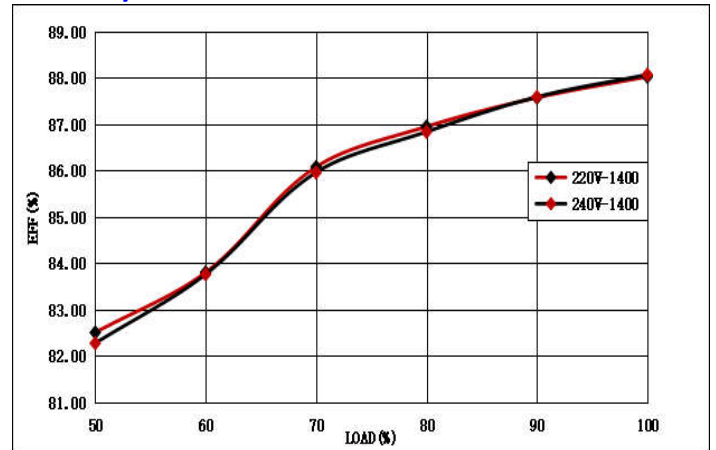


Curve for FLS-60-1400 DALI2 LS1, $I_o=1400\text{mA}$

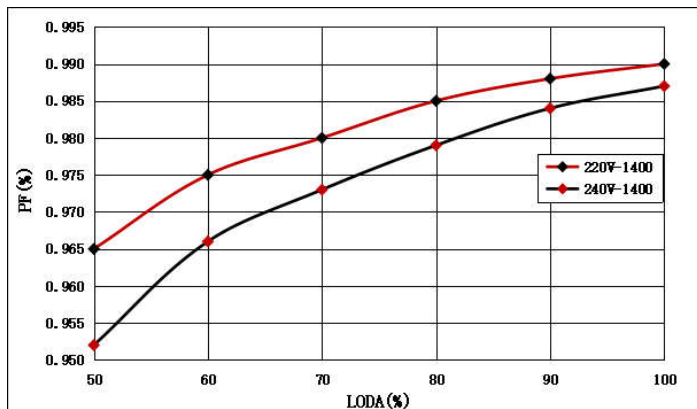
Lifetime vs. Ambient Temperature Curve



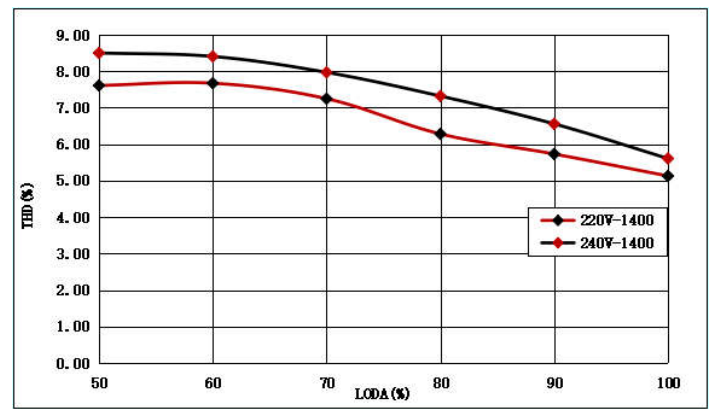
Efficiency vs. Load



Power Factor Characteristics



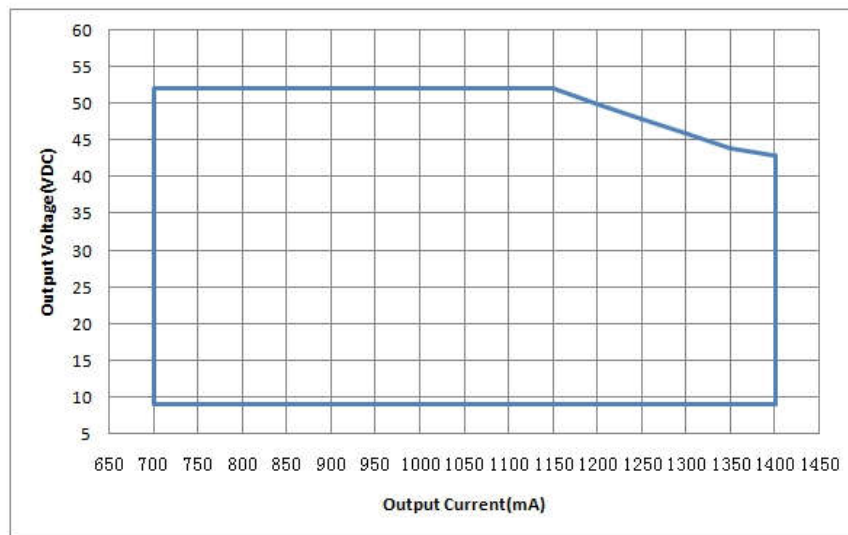
THD vs. Load



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■ Operating window



— Operating window 100%