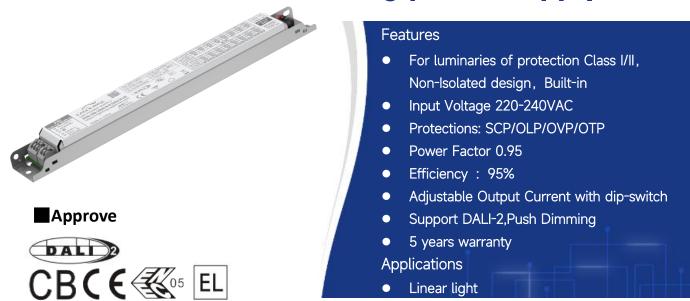


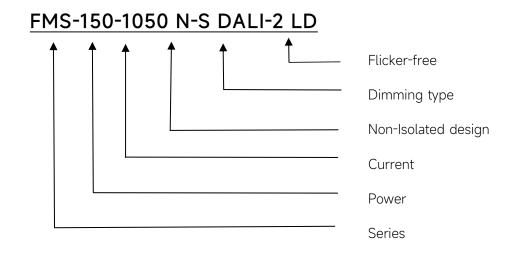
150W DALI + PUSH Dimming power supply



♦ Description

FMS-150-1050 N-S DALI-2 LD is a 150W constant current LED driver that operates from 198-264Vac input with 300 to 1050mA output current and a forward voltage range from 50 to 220Vdc. The output current is adjustable by dip-switch. With it's compact dimensions from $280 \times 30 \times 21$ mm. It is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

♦ Model code



Stock code: 002922



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♦ Specification

	Constant Current	300mA	350mA	400mA	•••	1000mA	1050mA			
	Voltage Range	50-220	i	k		50-150	50-142.9			
	Unload voltage Max.	<250V RMS								
Output	Current Accuracy	±5%								
o aspac	Output LF current ripple(≤120Hz)	±3%								
	SVM	≤0.4								
	P_{st}	≤1								
	Efficiency(Typ.)	95%@Full Load,230V								
	EOFI	15%								
	Rated input voltage	220-240V								
	Range of input voltage	198-264VAC								
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition								
	Rated input voltage(DC)	176-280VDC								
	Frequency(Hz)	0/50/60 Hz								
	Displacement factor	≥0.9								
Input	Power Factor	>0.95@Full Load,230V								
	Input Current	0.9A max.								
	Start-up time	<0.8S								
	Switch over time(AC/DC mode)	< 0.4S								
	No Load Power	<0.3W								
	Standby Power	<0.3W								
	Network standby power	<0.3W								
	THD (Typ.)	10%@Full Load,230V								
	Dimming YES									
Dimming	Dimming mode	DALI-2 (IEC 62386-101,102,207,251,252,253) & Push Dimming (Corridor Function)					(Corridor			
•	Dimming depth	1%								
	Dimming current range	1 ~100%								
		103-120%								
	Over Load Protection	YES/Latch off								
.		<250V RMS								
Protection	Over Voltage Protection	YES/Latch off								
	Short circuit Protection	YES/Latch off								
	Over Temperature Protection	YES/Auto Resume								
1 11.	Surge capability (L-N)	1KV								
capability	Surge capability (L/N-Ground)	2KV								
	Operating Temperature	-25°C~+50)°C							
Environment	Humidity	20%-90%RH								

Stock code: 002922



	Тс	85°C					
	Storage Temperature	-25°C~+60°C					
	Lifetime	>50000h,@Tc=80°C					
	Noise	≤25dB(A)@20cm					
Surface	Dimension	280 x 30 x 21(LXWXH)mm					
Surface	material	metal case					
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;					
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN 62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547					
	Energy Efficiency	Erp2.0 EU 2019/2020					
	RoHS	RoHS (2011/65/EU) (EU)2015/863					
DALI	EN 62386-101 (DALI-2) EN	l 62386-102 (DALI-2) EN 62386-207 (DALI-2,including part251,252,253)					
Note	 1.All parameters NOT specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth. 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EN considered. 4.Switch and dimmer are not recommended to connect between this product output and luminaries. 						

♦ Parameter

Number		0	utput		Switch position			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
*1	300mA			66				
2	350mA			77	ON			
3	400mA			88		ON		
4	450mA	F0 000	050	99	ON	ON		
5	500mA	50-220	250	110			ON	
6	550mA		•	121	ON		ON	
7	600mA		•	132		ON	ON	
8	650mA		ŀ	143	ON	ON	ON	

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9	700mA	50-214.3
0	750mA	50-200
	800mA	50-187.5
	850mA	50-176.5
3	900mA	50-166.7
	950mA	50-157.9
)	1000mA	50-150
6	1050mA	50-142.9

^{*} Factory default

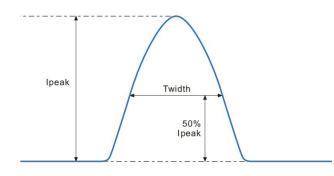
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♦ Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
43.6A	364μ s	4pcs	7pcs	9pcs	8pcs	13pcs	16pcs



Remarks:

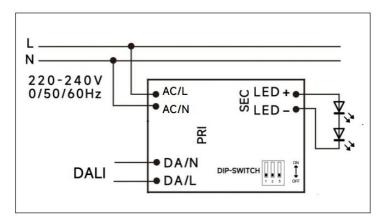
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

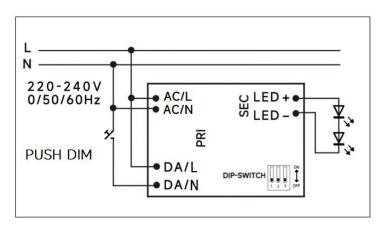
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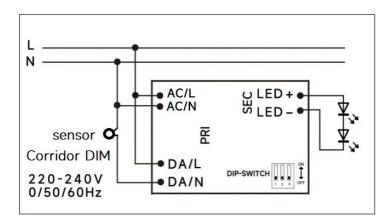
♦ Wiring diagram



DALI dimming application



PushDIM dimming application



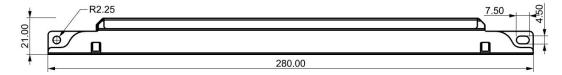
Corridor DIM dimming application

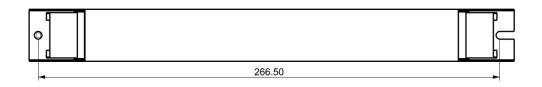
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♦ 2D diagram







Wiring & Connections

	Specification item	Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.51.5 mm ²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	0.51.5 mm ²

Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

Packaging

Model	Product	roduct Outer carton Quantity/carto		Quantity/carton	Net	Gross
Model	Dimensions(mm)	weight/piece	dimension(mm)	Quantity/Carton	weight/carton(Kg)	weight/carton(Kg)
FMS-150-10 50 N-S	280x30x21	0.2145	Inside:295X255X200	56	12 012	12.552
DALI-2 LD	200x30x21	0.2143	0.2145 Outside:310X265X210	50	12.012	12.552

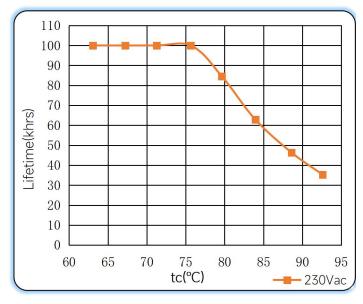
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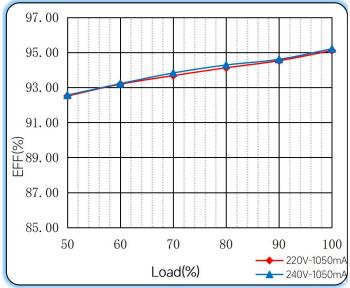


◆ Curve for FMS-150-1050 N-S DALI-2 LD, lo=1050mA

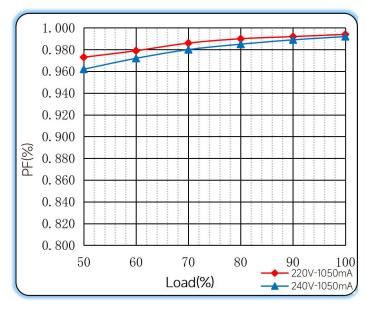
Lifetime vs. Temperature Curve



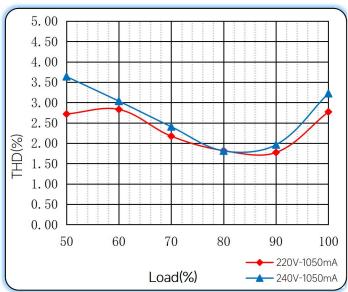
Efficiency vs. Load



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	<0.55	LED off: Delete saved level and turn on at 100% brightness		
Short push five	~7 ₋	Ouit Consider reads		
times	<3s	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

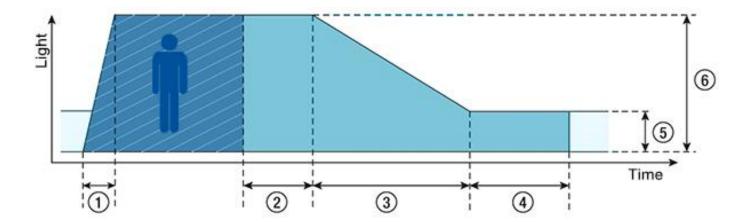
3. The maximum length of the cable from the push button to the last driver is 200 meters.

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◆ Corridor mode

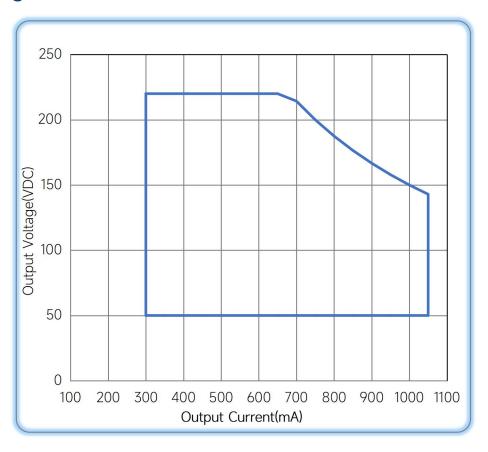


- ◆ ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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.
- ◆ ③Fade 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.
- ◆ ⑤Absence 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

Article information 2023/10/20

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2023/10/20

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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Manual

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