









#### FMS-150-800 N-S DALI-2 LN

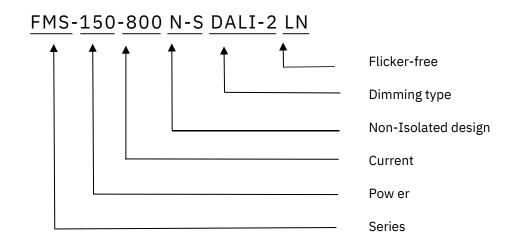
## 150W DALI + PUSH+NFC Dimming power supply



#### **Description**

FMS-150-800 N-S DALI-2 LN is a 150W constant current LED driver that operates from 198-264Vac input with 200 to 800mA output current and a forward voltage range from 64 to 300Vdc. The output current is adjustable by NFC. With it's compact dimensions from 360x30x21mm 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





# **Specification**

	Constant Current	200-800mA
	Voltage Range	64-300VDC
Output	Unload voltage Max.	<350V RMS
	Current Accuracy	±5%
	Output HF current ripple(≥1KHz)	±15%
	Output LF current ripple(≤120Hz)	±3%
	SVM	≤0.01@Full Load
	Pst	≤0.05@Full Load
	Efficiency(Typ.)	95%
	Rated input voltage	220-240VAC
	Range of input voltage	198- 264 VAC
	Rated input voltage(DC)	198-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
Innut	Power Factor	>0.95
Input	Input Current	0.85A max.
	Start-up time	<0.7\$
	No Load Power	≤0.5W
	Standby Power	≤0.5W
	Network standby power	≤0.5W
	THD (Typ.)	10%
	Dimm ing	YES
D imming	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)
D IIIIIIIIII	Dimming depth	1.5%
	Dimming current range	1.5%~100%
	Over Load Protection	103-120%
	Over Load Protection	YES/Latch off
Protection	Over Veltoge Duetoetien	<350V RMS
Frotection	Over Voltage Protection	YES/Latch off
	Short circuit Protection	YES/Latch off
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	- 25°C~+60°C
	Humidity	20%-90%RH
	Tc	85℃
	Storage Temperature	- 25°C~+60°C
	Lifetime	>50000h,@Tc=85°C, >100000h,@Tc=75°C
Surface	Dimension	360x30x21(LXWXH)mm



## FMS-150-800 N-S DALI-2 LN

s tandards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2; EN61000-3-3; EN 61547;					
Others	ErP	EU 2019/2020				
	RoHS	RoHS (2011/65/EU) (EU)2015/863				
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 by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capa citor.  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					
Number	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)		
*1	200mA	64-300VDC	350	60		
2		•••		•••		
3		64-300VDC	350	120		
4	•••	•••	•••	•••		
5	800mA	64-187.5VDC	350	150		

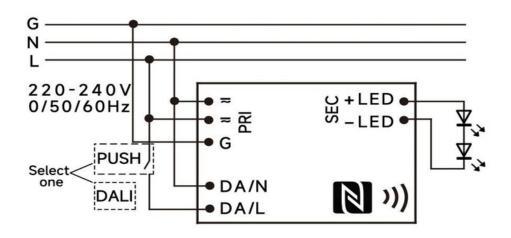
<sup>\*</sup> Factory default

### **Circuit Breaker**

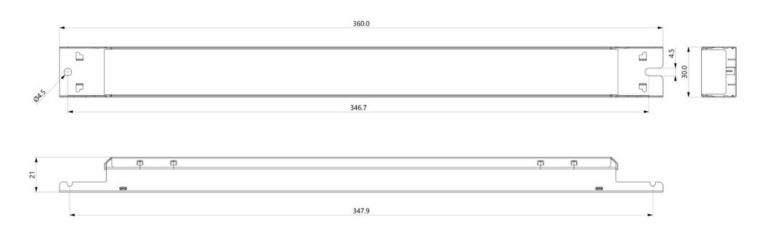
Ipeak	Tw idth	B10	B16	B20	C10	C16	C20
41.8A	<b>304 µ</b> s	6pcs	10pcs	12pcs	10pcs	16pcs	20pcs



### Wiring diagram



### **2D** diagram



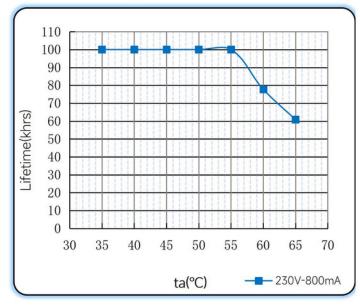
### **Wiring & Connections**

Specification item		Value (Unit)
Input	Input wire cross-section	0.51.5 mm2
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm2
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

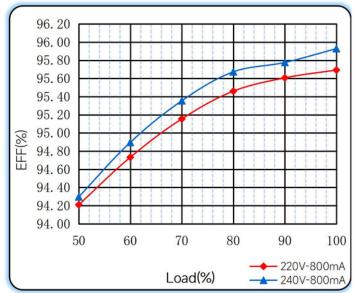


### Curve for FMS-150-800 N-S DALI-2 LN, Io=800mA

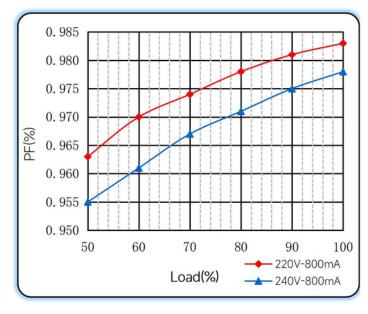
#### Lifetime vs. Temperature Curve



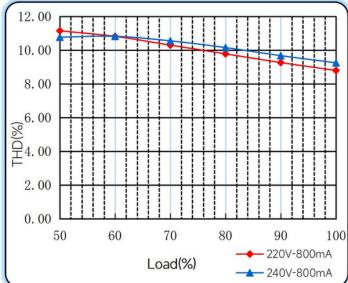
#### Efficiency vs. Load



#### **Power Factor Characteristics**



#### THD vs. Load





### **Push dimming operation**

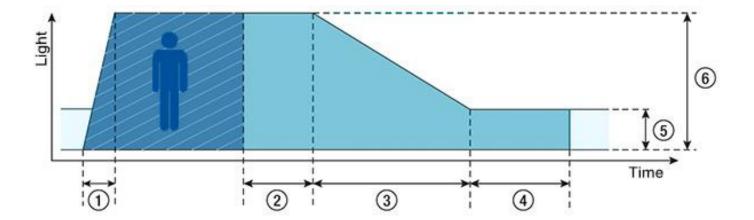
Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push twice	<0.5s	LED on: Save current brightness level  LED off: Delete saved level and turn on at 100% brightness		
Short push five times	<0.5s Ouit Corridor mode			
Long push	0.5-14s	Dimmingupordown		
Long push 15s-2mins		Syncall LED stobe 100% brightness		
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 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.



#### **Corridor mode**

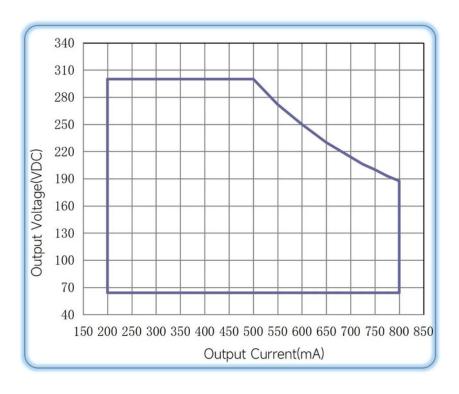


- Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fadein time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person 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 dela (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.



### **Operating window**



Operating window 100%

#### **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2022/05/15
Start-up time	0.58	0.78	А	2022/08/12



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