

# 75W DALI+PUSH+NFC Dimming power supply



#### Features

- Class I, Non-Isolated design, built-in
- Input Voltage 198-264VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : >0.95
- Efficiency : >92%
- Adjustable Output Current with NFC
- Support DALI-2,Push Dimming
- DALI maintainace(Part 251,252,253)
- 5 years warranty

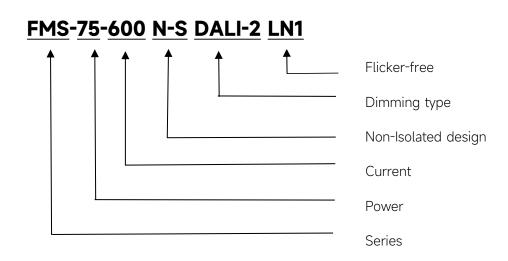
#### Applications

• Linear light

#### Description

FMS-75-600 N-S DALI-2 LN1 is a 75W constant current LED driver that operates from 198-264Vac input with 120 to 600mA output current and a forward voltage range from 50 to 220Vdc. The output current is adjustable by NFC. With it's compact dimensions from 280x30x16mm 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



lighting.eaglerise.com



# Specification

	Constant Current (mA)	120-600mA	
	Voltage Range(VDC)	50-220VDC	
	Unload voltage Max.(VDC)	<250V RMS	
Output	Current Accuracy	±5%	
Ουιραί	Output HF current ripple(≥1KHz)	±15%	
	Output LF current ripple(<120Hz)	±3%	
	SVM	≤0.4@full load	
	Pst	≤1@full load	
	Efficiency(Typ.)	>92%	
	Rated input voltage(VAC)	220-240VAC	
	Range of input voltage(VAC)	198-264VAC	
	Range of input voltage(VDC)	198-280VDC	
	Frequency(Hz)	0/50/60 Hz	
	Displacement factor	>0.95	
loout	Power Factor (Typ.)	>0.95	
Input	Input Current max	0.45A Max	
	Start-up time	<0.7S	
	No Load Power	≤0.5W	
	Standby Power	≤0.5W	
	Network standby power	≤0.5W	
	THD (Typ.)	<10%	
	Dimming	YES	
Dimming	Dimming mode	DALI-2 (IEC 62386-101,102,207,251,252,253) & Push Dimming (Corridor Function)	
•	Dimming depth	2mA@<200mA,1%@>200mA	
	Dimming current range	1-100%	
	Owned and Destantion	103-120%	
	Over Load Protection	YES/Latch off	
Ductostica		250VDC	
Protection	Over Voltage Protection	YES/Latch off	
	Short circuit Protection	YES/Latch off	
	Over Temperature Protection	YES/Auto Resume	
	Operating Temperature	-25°C~+55°C	
	Humidity	20%-90%RH	
Environment	Тс	85°C	
	Storage Temperature	-25°C~+60°C	
	Life time	>50000h,@Tc=85°C	



Surface	Dimension	280x30x16(LXWXH)mm		
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;			
Otherse	ErP	EU 2019/2020		
Others	RoHS	RoHS (2011/65/EU) (EU)2015/863		
DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2,including part251,252,253)			
Note	<ul> <li>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</li> <li>2.Ripple &amp; Noise are measured at 20MHz of bandwidth.</li> <li>3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.</li> </ul>			

### Parameter

	Output					
Number	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)		
*1	120mA	50-220VDC	250	26.4		
2						
3	340mA	50-220VDC	250	74.8		
4						
5	600mA	50-125VDC	250	75		

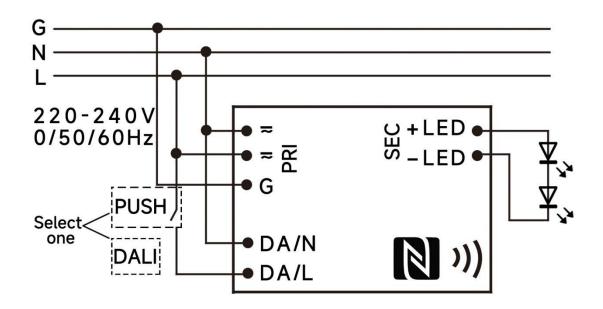
\* Factory default

# Circuit Breaker

I <sup>peak</sup>	Twidth	B10	B16	B20	C10	C16	C20
41.8A	<b>188µ</b> s	10pcs	16pcs	20pcs	17pcs	27pcs	34pcs

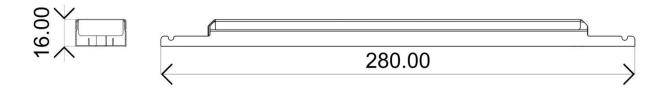


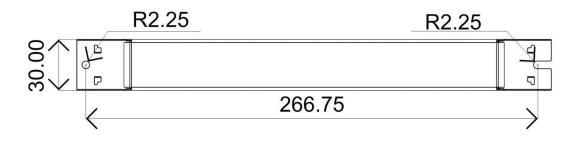
## Wiring diagram





## ♦ 2D diagram





## Wiring & Connections

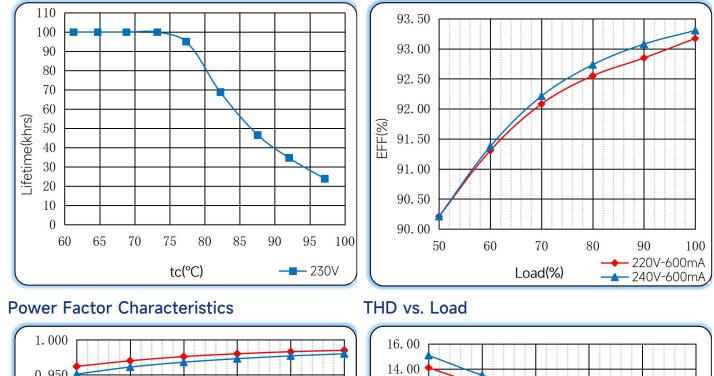
	Specification item	Value (Unit )
Input	Input wire cross-section	0.51.5 mm2
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.51.5 mm2
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

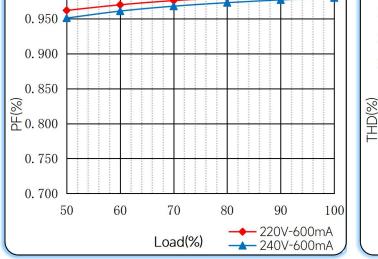


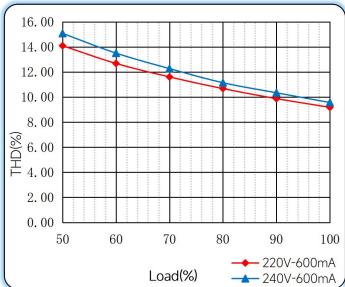
## Curve for FMS-75-600 N-S DALI-2 LN1, Io=600mA

Lifetime vs. Temperature Curve

Efficiency vs. Load









#### Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push	×0 F-	LED on: Save current brightness level		
twice	<0.5s	LED off: Delete saved level and turn on at 100% brightness		
Short push five	.7.	Quit Corridor mode		
times	<3s			
Long push	0.5-14s	Dimming up or down		
Long push	15s-2mins	Sync all LEDs to be 100% brightness		
	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins.		
Long push		Then brightness will turn to be 10% within 32s if no action during 2mins		
		100% brightness.		

#### Note:

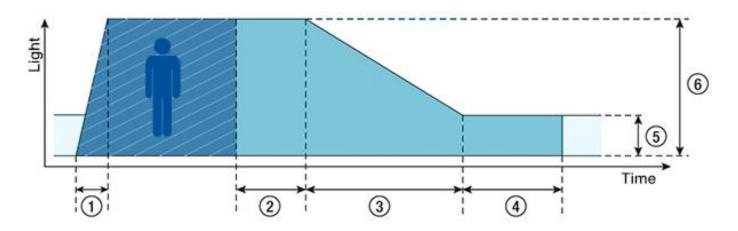
1. The factory default brightness is at 100%.

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.



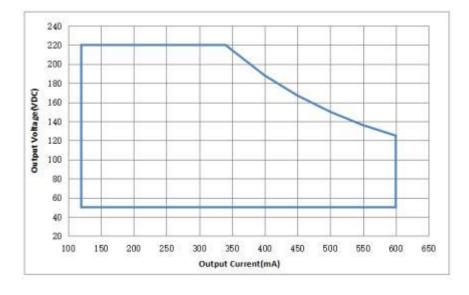
#### Corridor mode



- 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.
- **④Switch-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.
- **SAbsence value(default: 10 %):** the luminous intensity when there is no person present.
- **OPresence value (default: 100 %):** the luminous intensity when persons are present.



## Operating window



— Operating window 100%

### Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/09/30
SVM	≤0.15@Full Load	≤0.4@full load	6	2022/11/09
Pst	≤0.15@Full Load	≤1@Full Load	В	
update software			С	2024/01/22

Tel: +86-0757-86256822, +86-0757-86256831 E-mail: sales@eaglerise.com Website : https://lighting.eaglerise.com





Manual

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Stock code : 002922 Article information 2024/ 01/22

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