

## 75W DALI+PUSH+NFC Dimming power supply



■ Approve



### 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
- 5 years warranty

### Applications

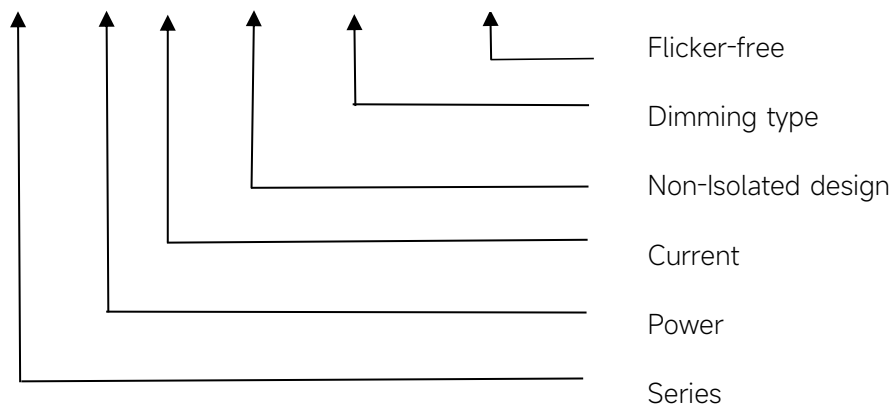
- Linear light

### ◆ 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

FMS-75-600 N-S DALI-2 LN1



## ◆ Specification

Output	Constant Current (mA)	120-600mA
	Voltage Range(VDC)	50-220VDC
	Unload voltage Max.(VDC)	<250V RMS
	Current Accuracy	±5%
	Output HF current ripple(≥1KHz)	±15%
	Output LF current ripple(≤120Hz)	±3%
	SVM	≤0.4@full load
	Pst	≤1@full load
	Efficiency(Typ.)	>92%
Input	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
	Power Factor (Typ.)	>0.95
	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	Dimming	YES
	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)
	Dimming depth	1%
	Dimming current range	1-100%
Protection	Over Load Protection	103-120% YES/Latch off
	Over Voltage Protection	250VDC YES/Latch off
	Short circuit Protection	YES/Latch off
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	-25°C~+55°C
	Humidity	20%-90%RH
	Tc	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;	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>2.Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF &amp; 47 uF parallel capacitor.</p> <p>3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.</p>	

## ◆ Parameter

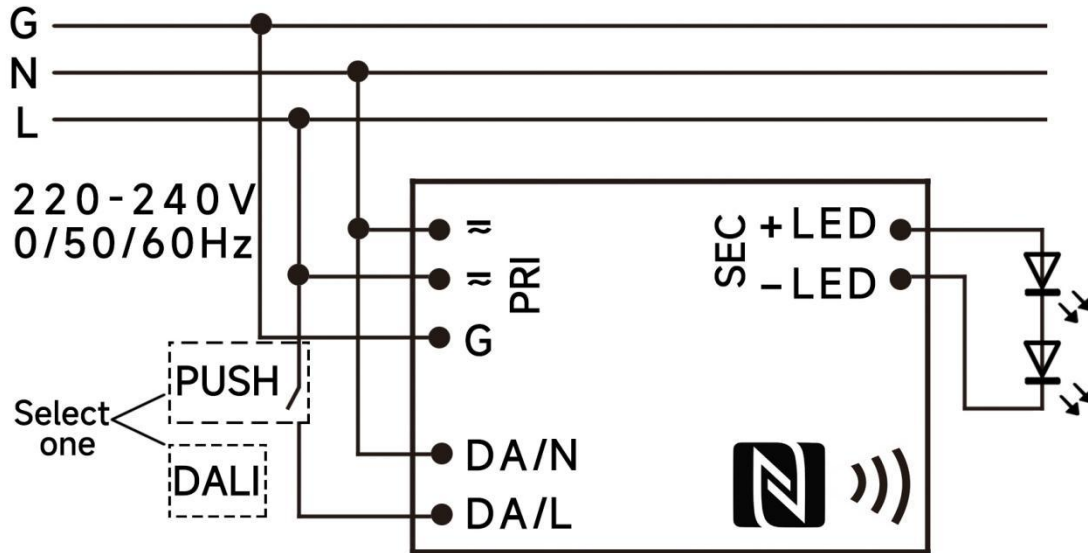
Number	Output			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
*1	120mA	50-220VDC	250	26.4
2	...	...	...	...
3	340mA	50-220VDC	250	74.8
4	...	...	...	...
5	600mA	50-125VDC	250	75

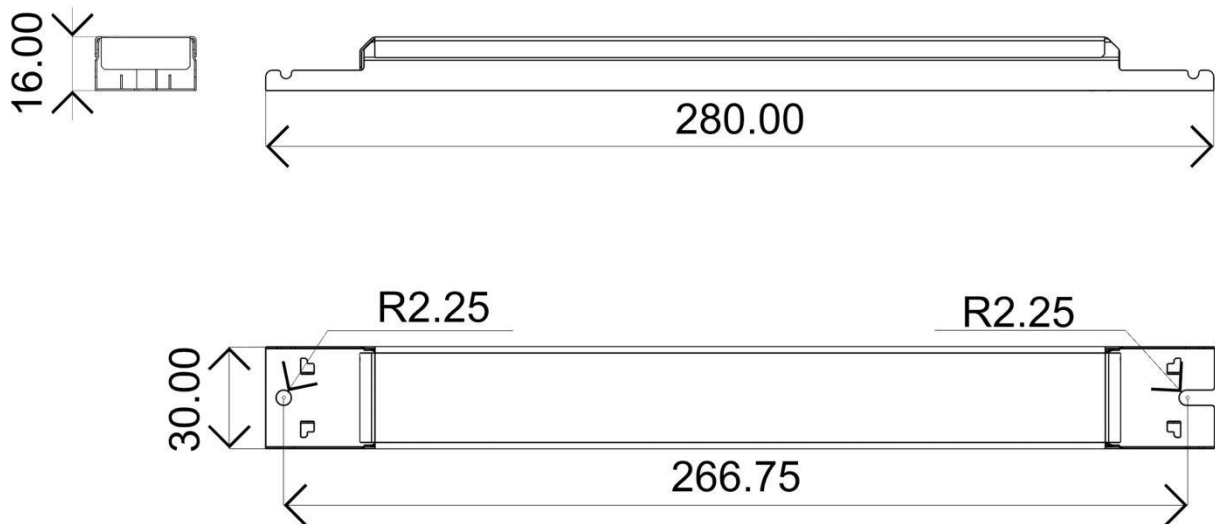
\* Factory default

## ◆ Circuit Breaker

I <sub>peak</sub>	T <sub>width</sub>	B10	B16	B20	C10	C16	C20
41.8A	188μs	10pcs	16pcs	20pcs	17pcs	27pcs	34pcs

◆ **Wiring diagram**

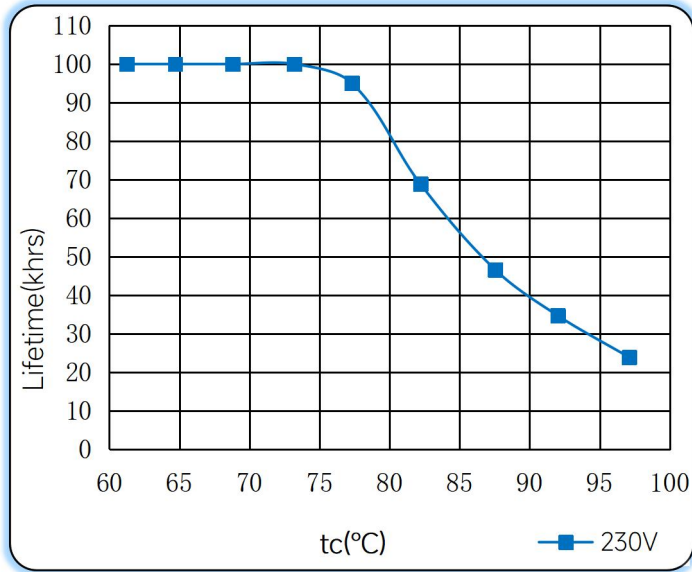


**◆ 2D diagram**

**◆ Wiring & Connections**

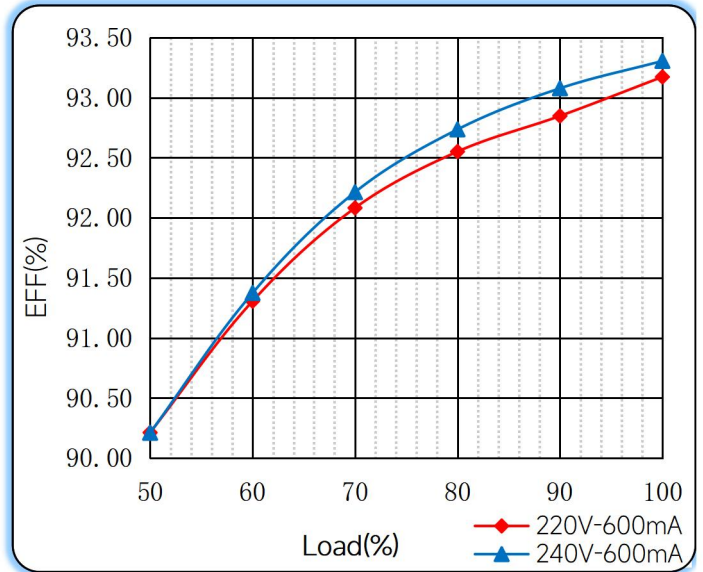
Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Curve for FMS-75-600 N-S DALI-2 LN1, $I_o=600\text{mA}$

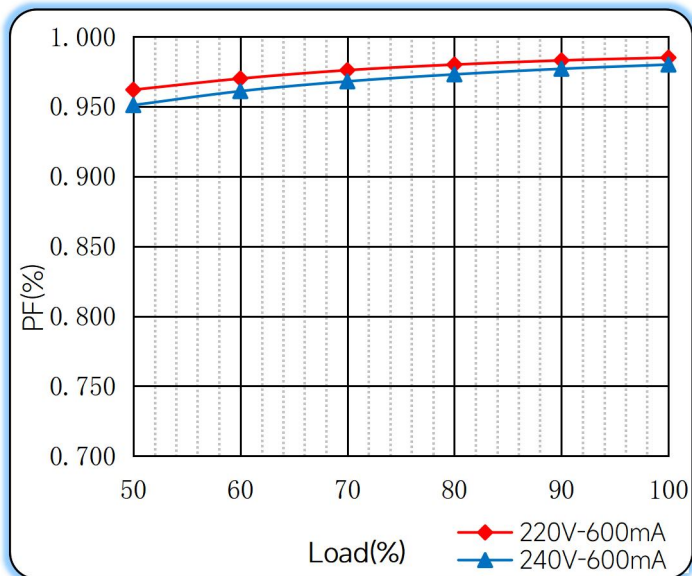
### Lifetime vs. Temperature Curve



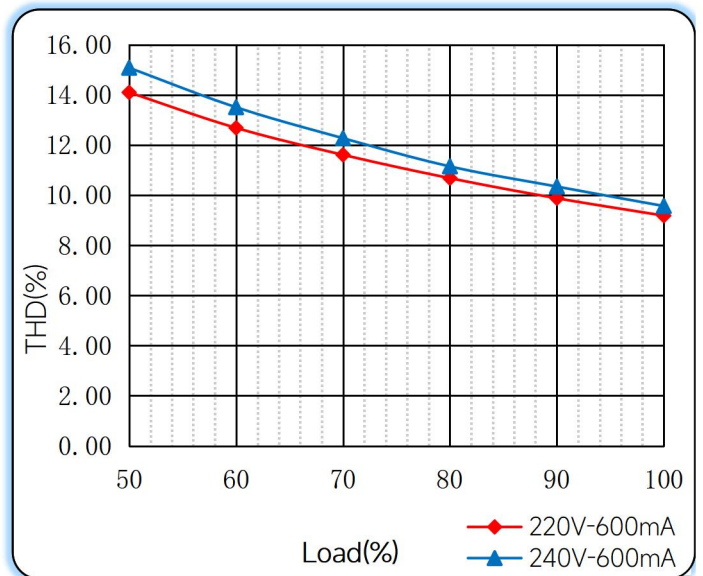
### Efficiency vs. Load



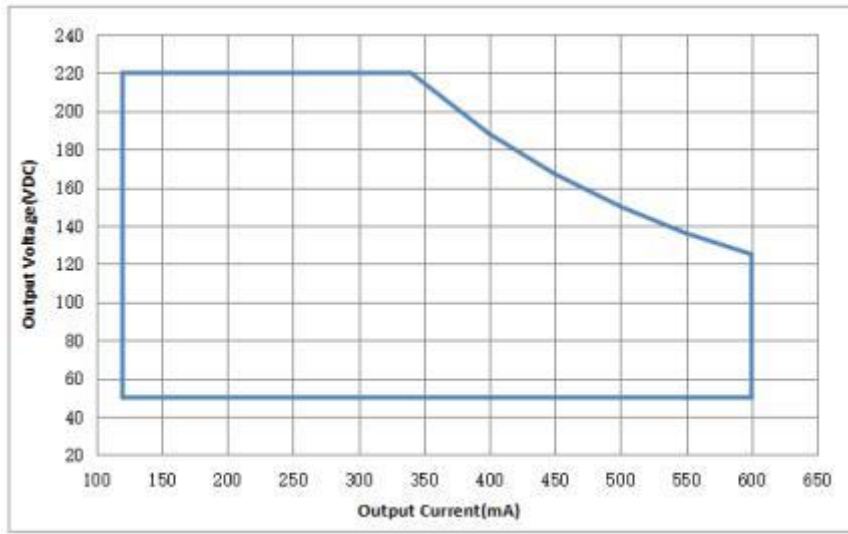
### Power Factor Characteristics



### THD vs. Load



◆ **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	B	2022/11/09
Pst	≤0.15@Full Load	≤1@Full Load		

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Manual