









#### **FLS-8-350 DALI-2 LD**

# **8W DALI + PUSH Dimming power supply**





#### **Features**

Class II, SELV, independent Input Voltage 220-240VAC Protections: SCP/OLP/OVP/OTP

Power Factor: 0.95C Efficiency: 78%

Support DALI-2, Push Dimming

5 years warranty

IP20

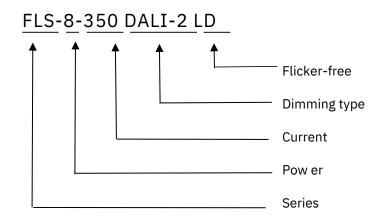
**Applications** 

LED panel、Spot light、Down light

### **Description**

FLS-8-350 DALI-2 LD is an 8W constant current LED driver with 120 to 350mA output current and a forward voltage range from 5 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 142 x 30 x 20 mm 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





# **Specification**

	Constant Current (mA)	120	150	180	200	250	280	300	350
Output	Voltage Range(VDC)	5-42			5-32		5-27	5-24	
	Unload voltage Max.	57VDC							
	Current Accuracy	±7% ±6%							
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.4							
	Pst	≤1							
	Efficiency(Typ.)	78%@Full load							
	Rated input voltage	220-240VAC							
	Range of input voltage	198- 264 VAC							
	Range input voltage(DC)	198-280	VDC						
	Frequency(Hz)	0/50/60	Hz						
	Displacement factor	≥0.5							
	Power Factor	0.95C@I	Full load,2	30VAC					
Input	Input Current	0.12A							
	Start-up time	<0.78							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	<10%@Full load							
	Dimm ing	YES							
<b>5</b>	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push Dimming (Corridor Function)							
D imming	Dimming depth	1%							
	Dimming current range	1~100%							
	Over Lead Dretestion	103-120%							
	Over Load Protection	YES/Latch off							
		>57VDC							
Protection	Over Voltage Protection	YES/Latch off							
	Short circuit Protection	YES/Latchoff							
	Over Temperature Protection	YES/AutoResume							
	Operating Temperature	-20°C~+45°C							
	Humidity	20%-90%RH							
Environment	Tc	80°C							
	StorageTemperature	-25°C~+60°C							
	Lifetime	>50000h,@Tc=70°C							
Surface	Dimension	142x30x20(LXWXH)mm							
s tandards	EN61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2; EN61000-3-3; EN61547;								



Others	ErP	EU 2019/2020			
Others	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.				

### **Parameter**

Number	Output	Switch position			
	Current(mA)	1	2	3	
1	120				
2	150			ON	
3	180		ON		
4	200		ON	ON	
5	250	ON			
6	280	ON		ON	
7	300	ON	ON		
*8	350	ON	ON	ON	

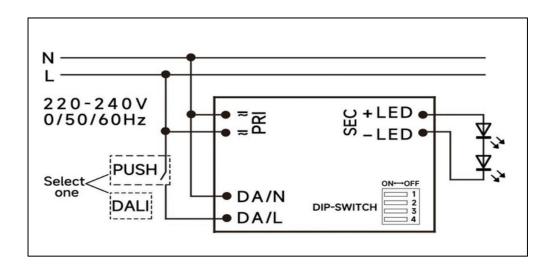
<sup>\*</sup> Factory default

### **Circuit Breaker**

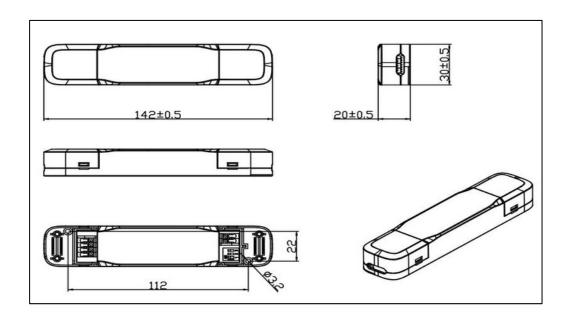
Ipeak	Tw idth	B10	B16	B20	C10	C16	C20
2.34A	<b>38.4 µ</b> s	66pcs	106pcs	133pcs	66pcs	106pcs	133pcs



# Wiring diagram



# **2D** diagram



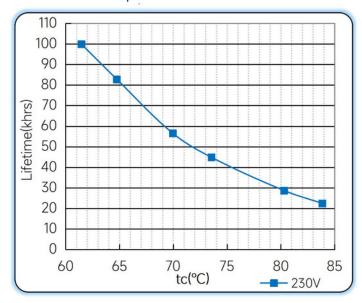
# **Wiring & Connections**

Specification item		Value (Unit)
	Input wire cross-section	0.51.5 mm2
Input	Input wire gauge.	1620 AWG
	Input wire strip length	89mm
	Output wire cross-section	0.51.5 mm2
Output	Output wire gauge.	1620 AWG
	Output wire strip length	89mm

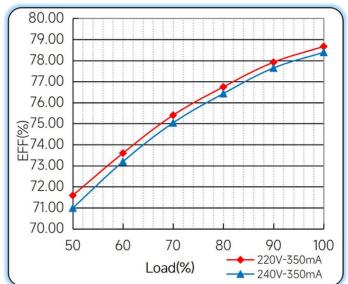


### Curve for FLS-8-350 DALI-2 LD, Io=350mA

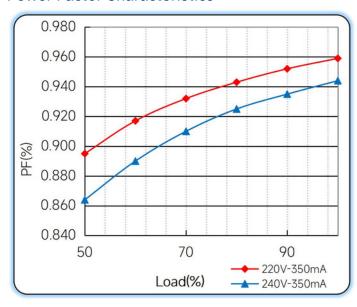
#### Lifetime vs. Temperature Curve



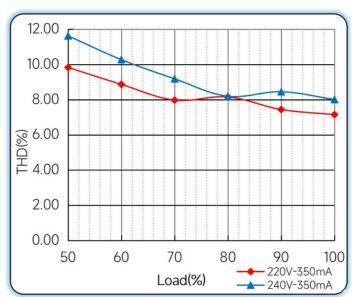
#### Efficiency vs. Load



#### **Power Factor Characteristics**



THD vs. Load





# **Push dimming operation**

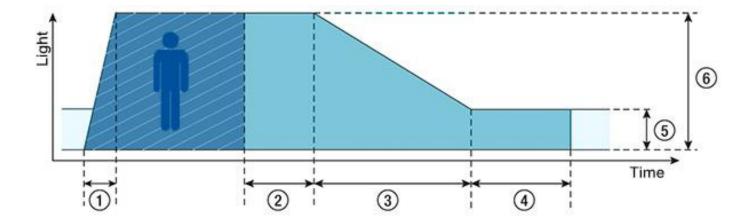
Action	Action duration	Function
Short push	<0.5s	Turn on/off
Short push twice	<0.5s	LED on: Save current brightness level  LED off: Delete saved level and turn on at 100% brightness
Short push five times	<0.5s	Quit Corridor mode
Long push	0.5-14s	Dimming up or down
Long push	15s-2mins	Syncall LED stobe 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.



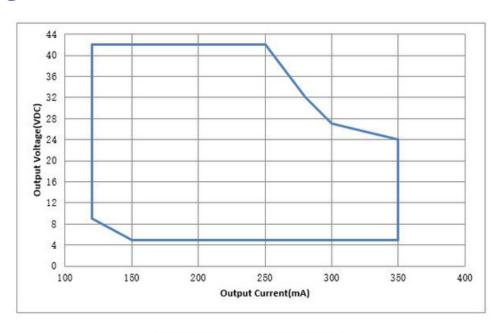
### **Corridor mode**



- 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 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.
- 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	2022/02/15
Start-up time	0.6S	0.7S	A	2022/08/12







