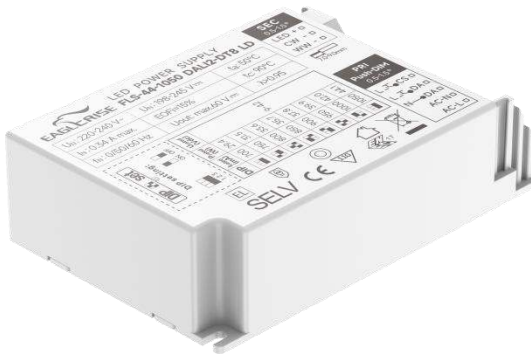


44W DALI DT8+ PUSH Dimming power supply



■ Approve



CB CE EL SELV

Features

- For luminaries of protection Class I, II, SELV, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor 0.95
- Efficiency 86%
- Support DALI-2, Push Dimming
- 5 years warranty

Applications

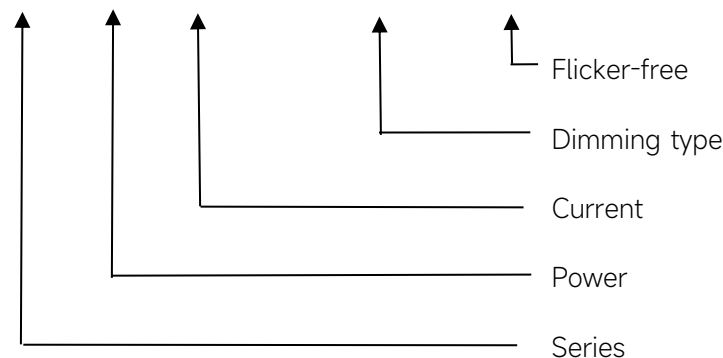
- LED panel, Down light

◆ Description

FLS-44-1050 DALI-2-DT8 LD is a 44W constant current LED driver with 700 to 1050mA output current and a forward voltage range from 9 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 110 X 74 X 30 mm it is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

FLS-44-1050 DALI-2-DT8 LD



◆ Specification

	Constant Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA
Output	Voltage Range	9-42VDC							
	Unload voltage Max.	60VDC							
	Current Accuracy	±5%							
	Output HF current ripple(≥1KHz)	±5%							
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.01@Full Load							
	P _{st}	≤0.05@Full Load							
	Efficiency(Typ.)	86%@Full Load, 240VAC							
Input	Rated input voltage	220-240VAC							
	Range of input voltage	176-264VAC							
	Rated input voltage(DC)	176-280VDC							
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor	≥0.9@Full load, 240VAC							
	Power Factor	0.95@220-240VAC, full load							
	Input Current max	0.34A MAX. @Full Load,176VAC							
	Start-up time	< 0.5 S							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	10% Typ. @Full Load, 240VAC, I _o =1050mA							
Dimming	Dimming	YES							
	Dimming mode	DALI-2 IEC 62386-101,102,207,209 & Push							
	Dimming depth	1%							
	Dimming current range	1 ~100%							
Protection	Over Load Protection	103-120% @I _o =1050mA YES/Auto resume(When there is dimming command input)							
	Over Voltage Protection	> 60VDC YES/Auto resume(When there is dimming command input)							
	Short circuit Protection	YES/Auto resume(When there is dimming command input)							
	Over Temperature Protection	YES/Auto Resume							
Environment	Operating Temperature	-20°C~+50°C							
	Humidity	20%~90%RH							
	T _c	90°C							
	Storage Temperature	-25°C~+60°C							
	Life time	> 50000h@T _c =80°C,230VAC Full Load, 230VAC							
Surface	Dimension	110X74X30(LXWXH)mm /With side caps :160X74X30(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	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 capacitor. 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

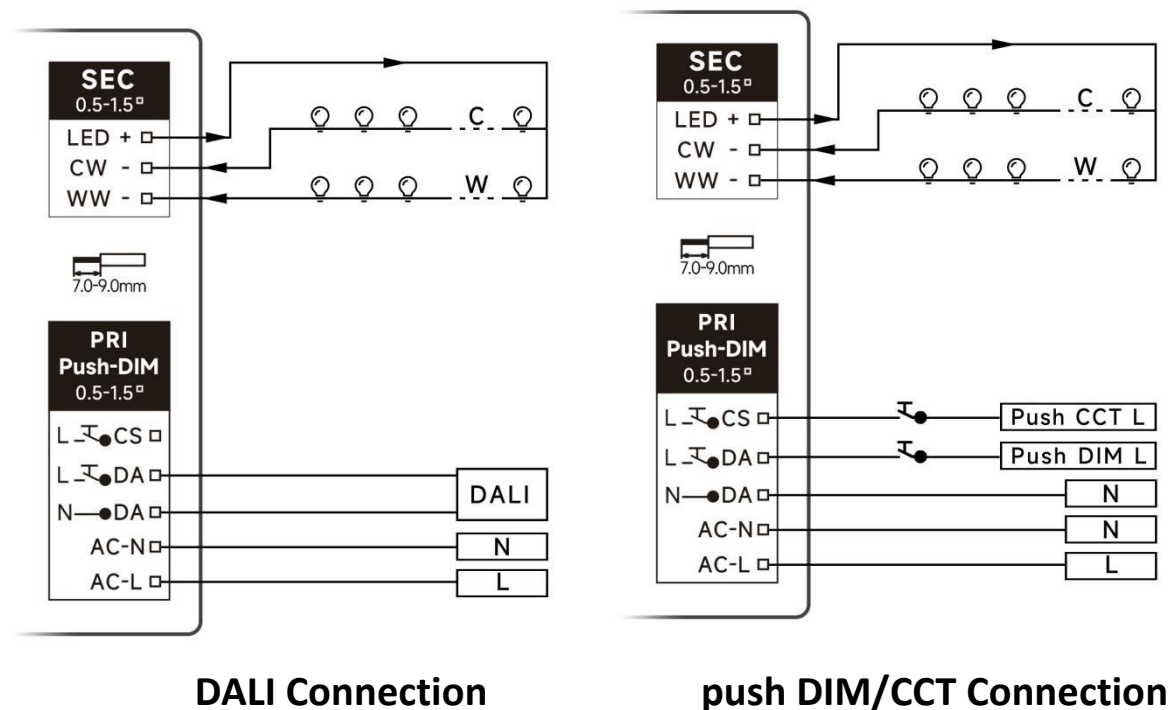
Number	Output	Switch position		
	Current(mA)	1	2	3
	I1+I2			
1	700	--	--	--
2	750	ON	--	--
3	800	--	ON	--
4	850	ON	ON	--
5	900	--	--	ON
6	950	ON	--	ON
7	1000	--	ON	ON
*8	1050	ON	ON	ON

* Factory default

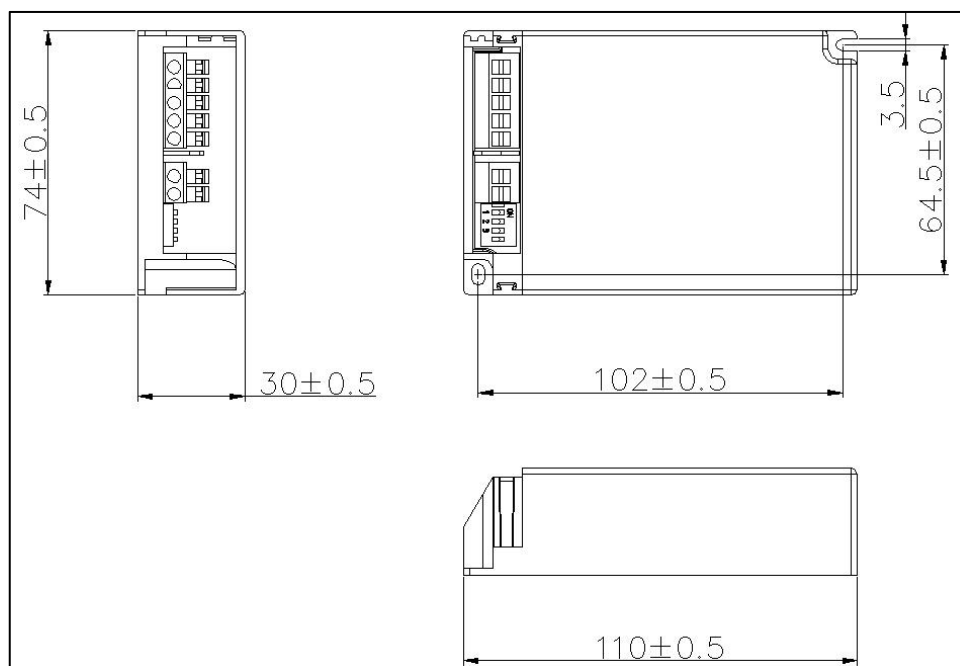
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
8.84A	37.42μs	22pcs	32pcs	38pcs	27pcs	41pcs	47pcs

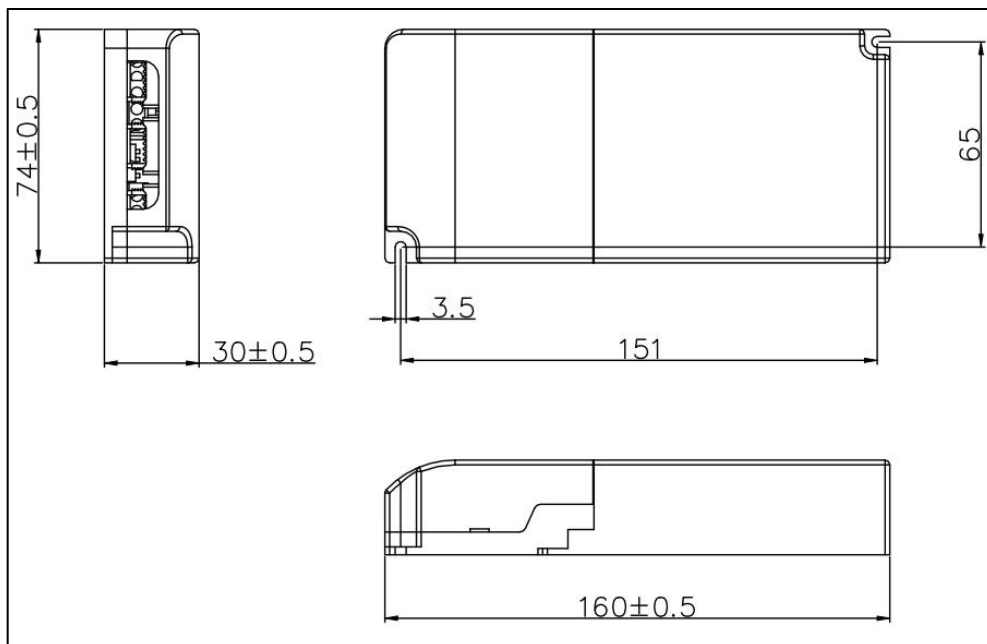
◆ Wiring diagram



◆ 2D diagram



With side caps

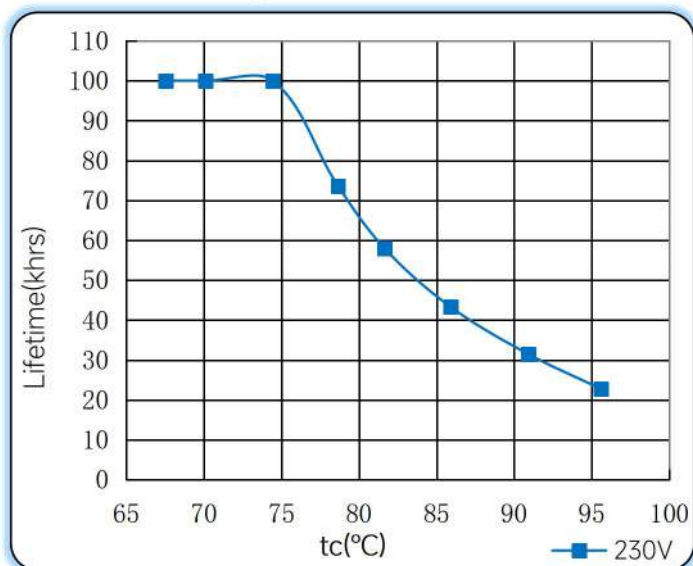


◆ Wiring & Connections

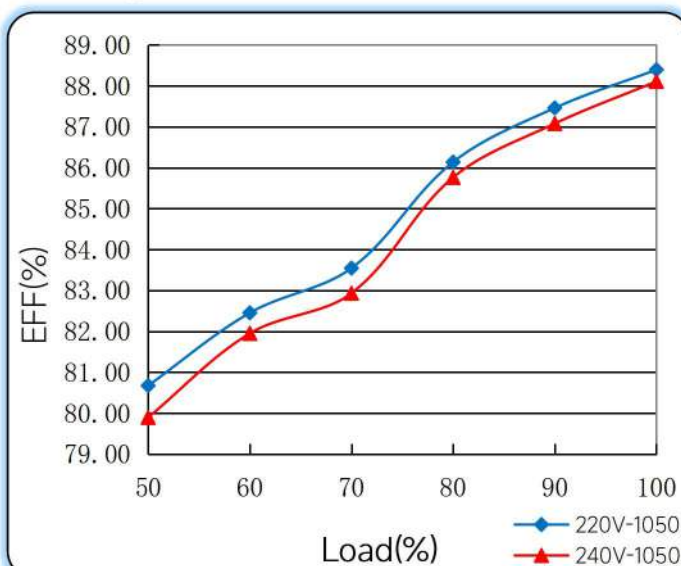
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for FLS-44-1050 DALI-2-DT8 LD, $I_o=1050\text{mA}$

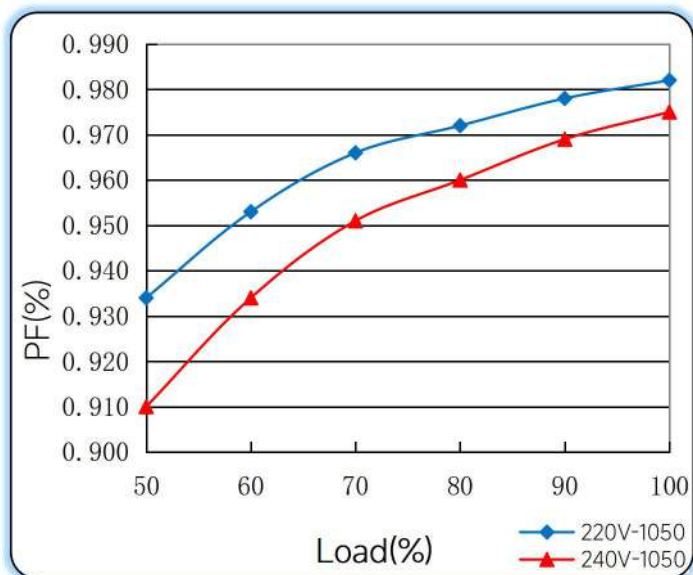
Lifetime vs. Temperature Curve



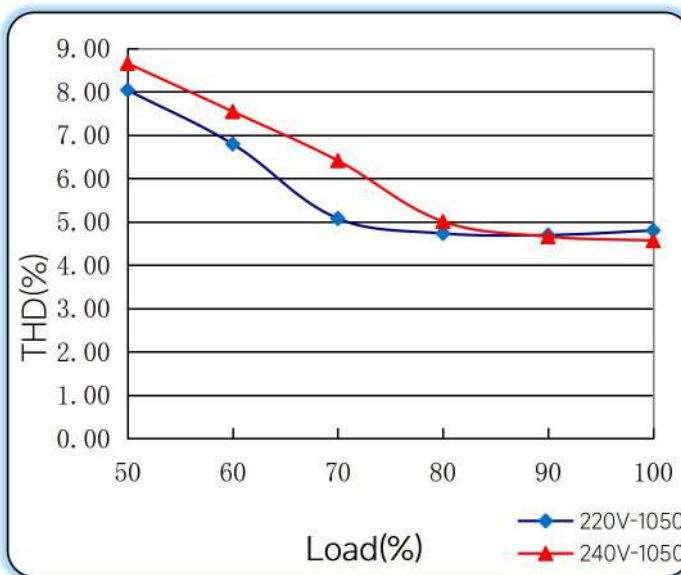
Efficiency vs. Load



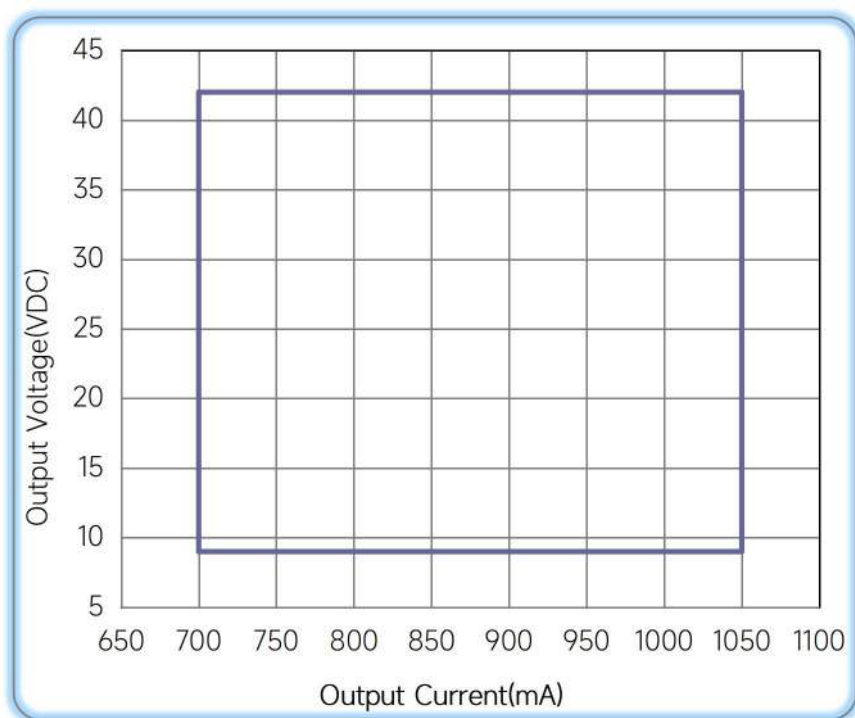
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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Manual