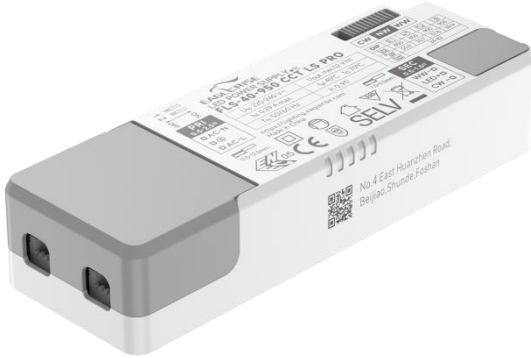


## 40W Constant Current CCT power supply



■ Approve

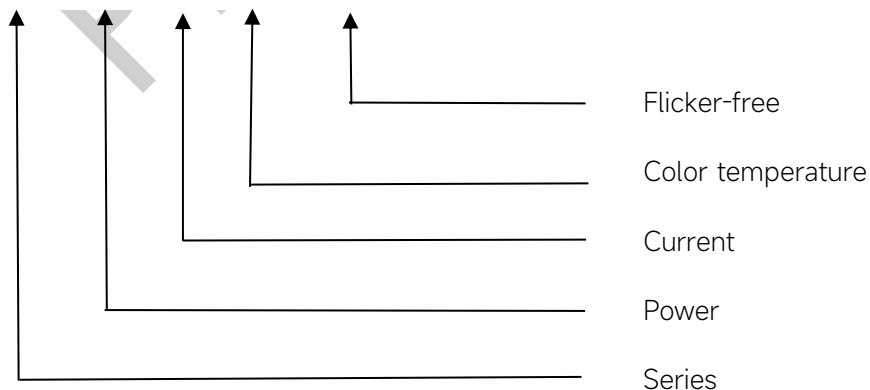


### ◆ Description

FLS-40-950 CCT LS PRO is a 40W constant current LED driver with 800 to 950mA output current and a forward voltage range from 24 to 42Vdc. The output current is adjustable by DIP Switch. With its dimensions from 147.5 x 50 x 30 mm it is easy to integrate in LED panel products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

### ◆ Model code

#### FLS-40-950 CCT LS PRO



#### Features

- Class II, SELV, independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.95(Typ.)
- Efficiency: 88%(Typ.)
- 5 years warranty
- IP20

#### Applications

LED panel

## ◆ Specification

	Constant Current (mA)	800mA	850mA	900mA	950mA
Output	Voltage Range(VDC)	24-42VDC			
	Unload voltage Max.(VDC)	52VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	P <sub>st</sub>	≤1			
	Efficiency(Typ.)	88%@Full load,220-240VAC			
Input	Rated input voltage(VAC)	220-240VAC			
	Range of input voltage(VAC)	176-264VAC			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	0.95@Full load,220-240VAC			
	Input Current max	0.29A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
THD (Typ.)	< 10%@Full load,220-240VAC				
Protection	Over Load Protection	103-120% YES/Auto Resume			
	Over Voltage Protection	52VDC YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
	Over Temperature Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~+45°C			
	Humidity	20%-90%RH			
	T <sub>c</sub>	70°C			
	Storage Temperature	-40°C~+70°C			
	Life time	> 50000h@T <sub>c</sub> =70°C			
Surface	Dimension	147.5X50X30mm			
standards	EN 61547; EN 61347-1,EN 61347-2-13; IEC 61347-1,IEC 61347-2-13; EN 62384; EN 615471				
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.				

### ◆ Parameter

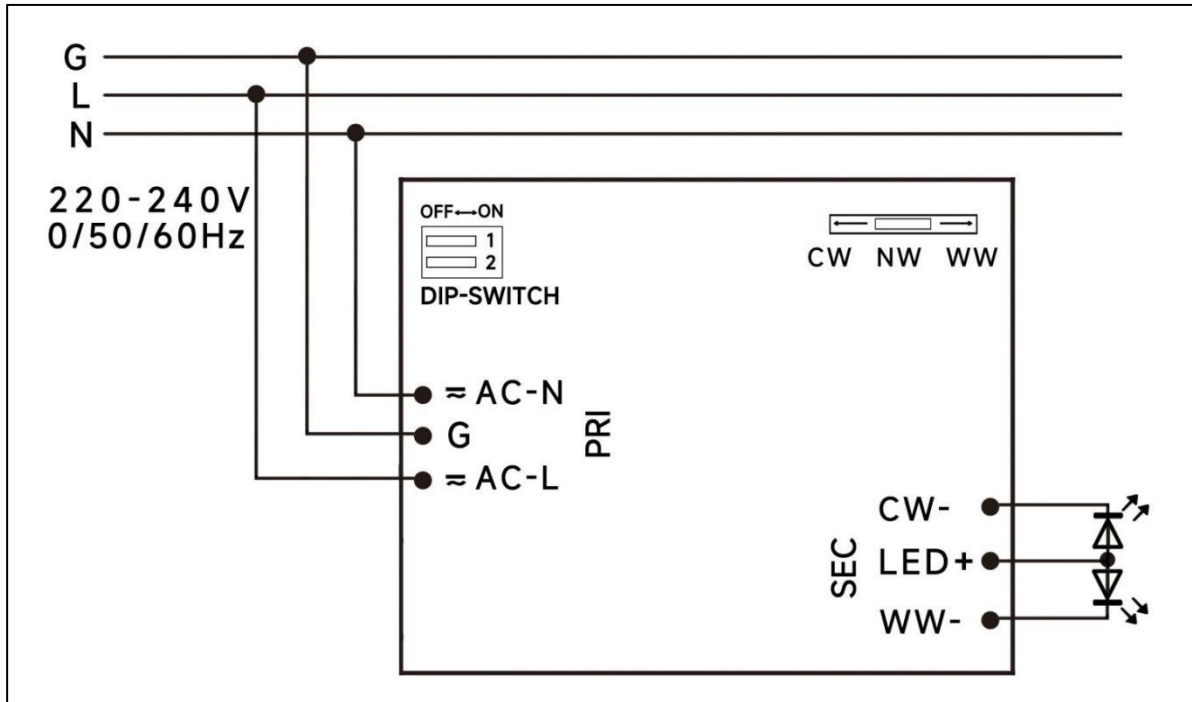
Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	800mA	24-42VDC	52	33.6	--	--
2	850mA	24-42VDC		35.7	ON	--
3	900mA	24-42VDC		37.8	--	ON
*4	950mA	24-42VDC		39.9	ON	ON

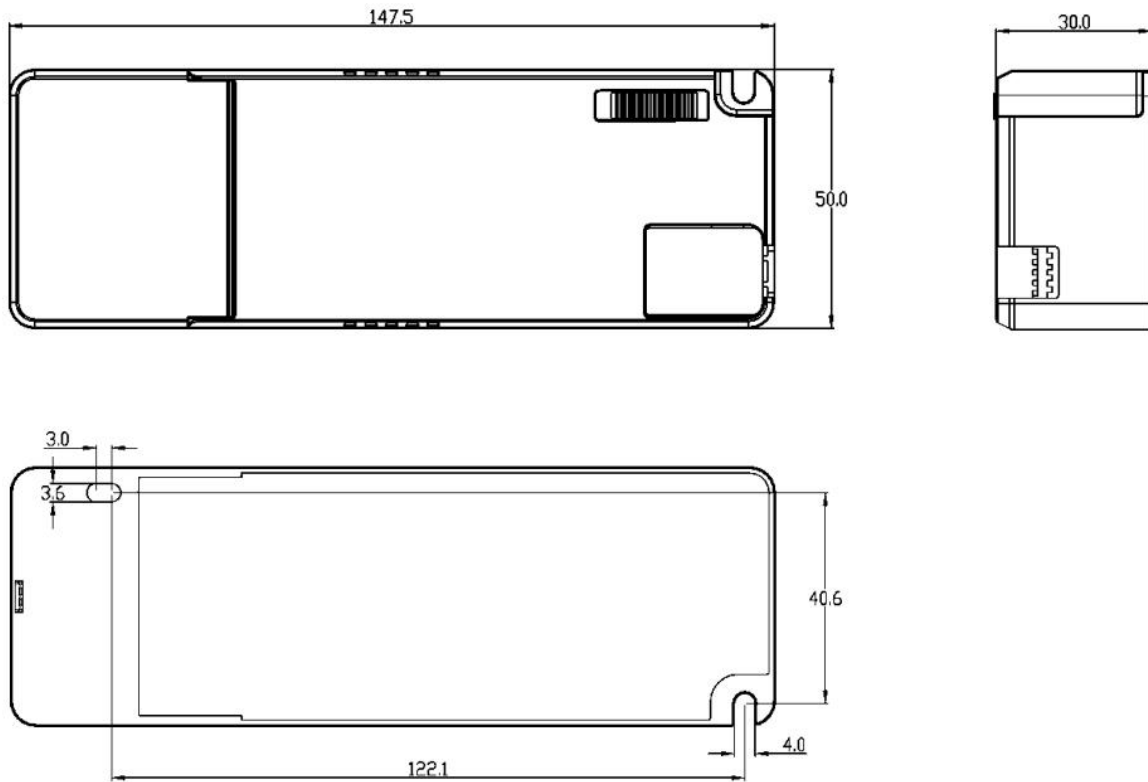
CCT	Switch position
	3
CW	ON
WW	--

### ◆ Circuit Breaker

I <sub>peak</sub>	T <sub>width</sub>	B10	B16	B20	C10	C16	C20
20.2A	160μs	25pcs	41pcs	51pcs	27pcs	44pcs	55pcs

◆ **Wiring diagram**

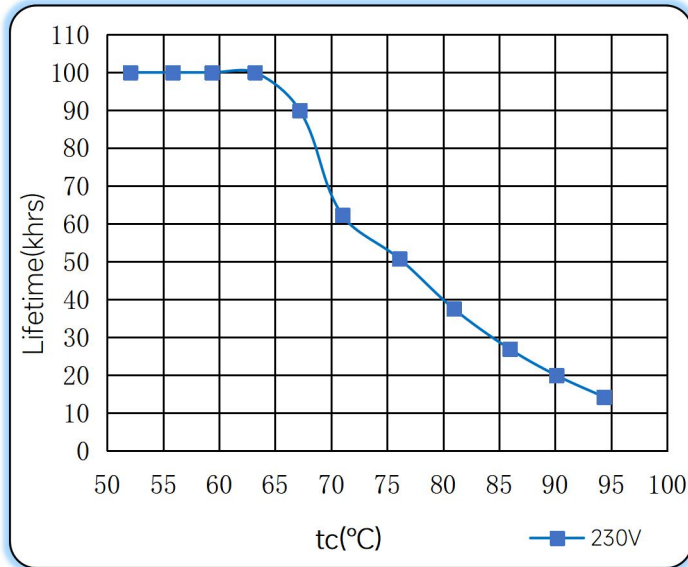


**◆ 2D diagram**

**◆ Wiring & Connections**

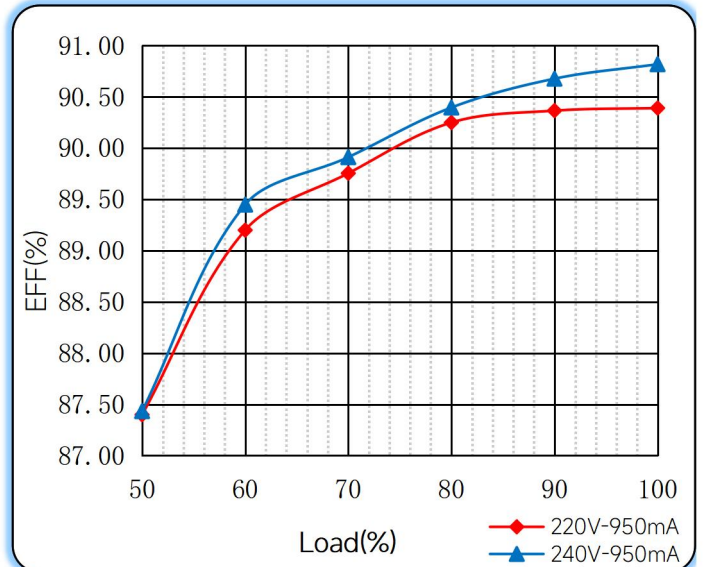
Specification item		Value (Unit )
Input	Input wire cross-section	0.5...2.5mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...2.5mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Curve for FLS-40-950 CCT LS PRO, $I_o=950mA$

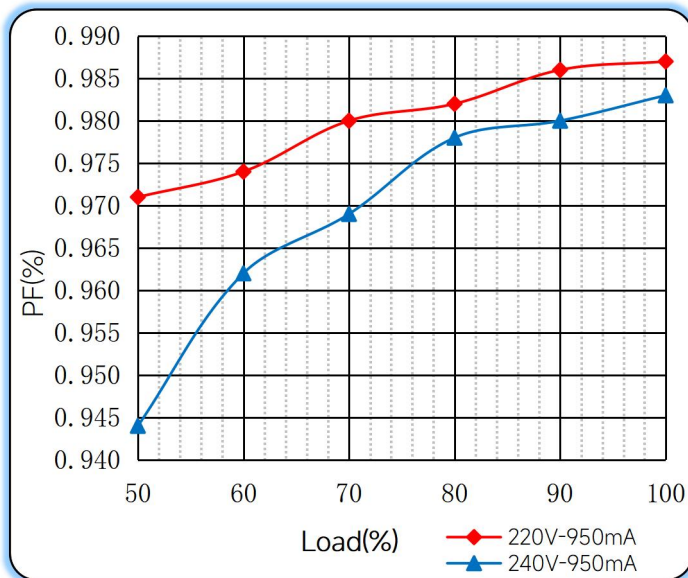
### Lifetime vs. Temperature Curve



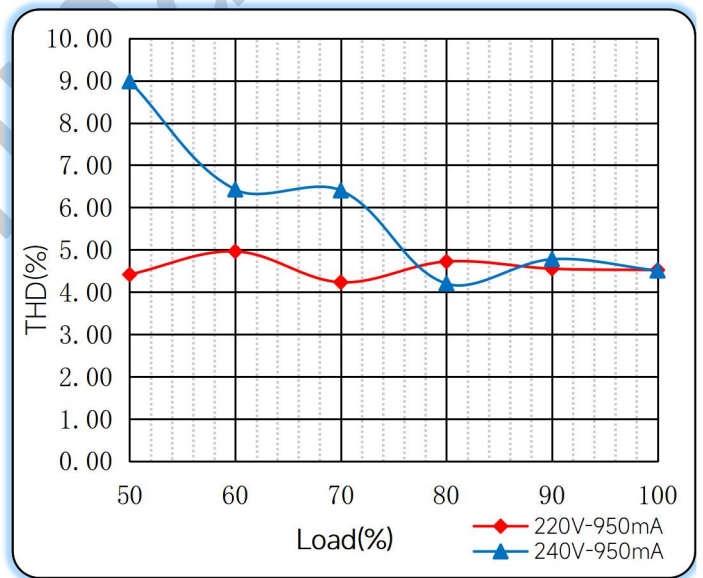
### Efficiency vs. Load



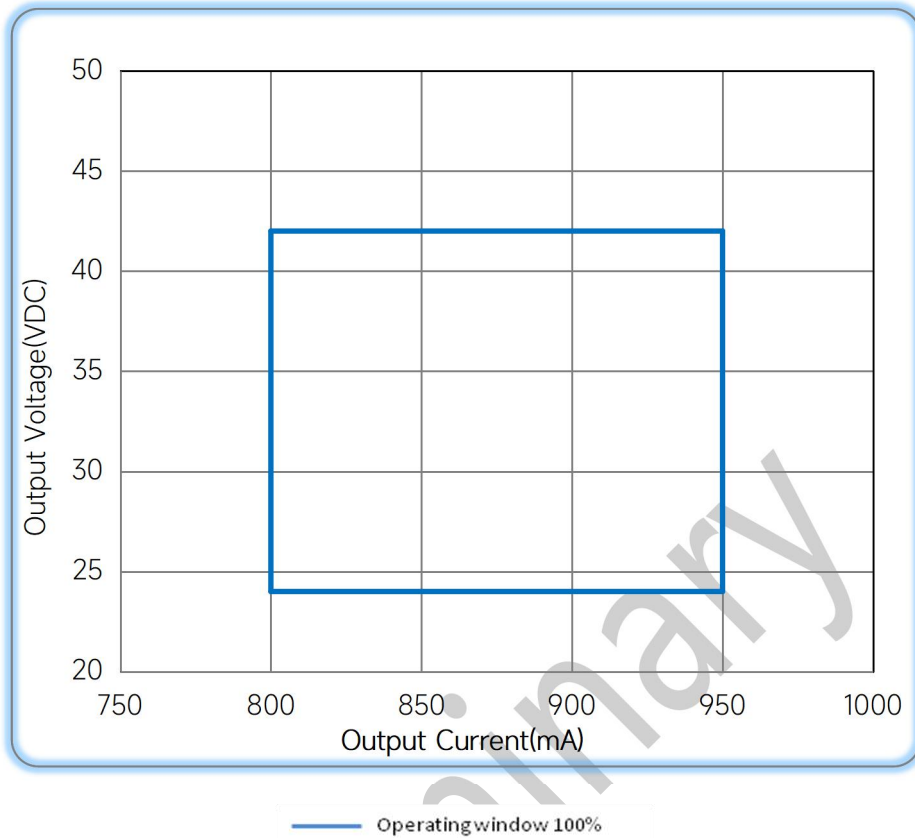
### Power Factor Characteristics



### THD vs. Load



◆ **Operating window**



◆ **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/01/12
		Updated	B	2023/04/07

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