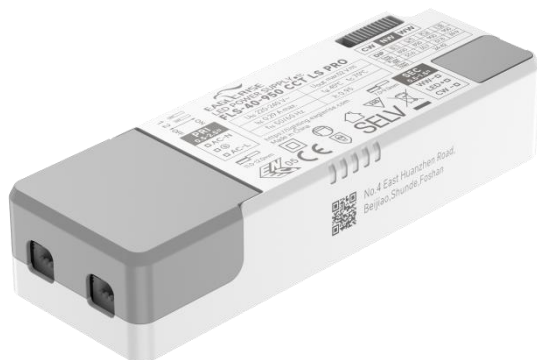


40W Constant Current CCT power supply



■ Approve

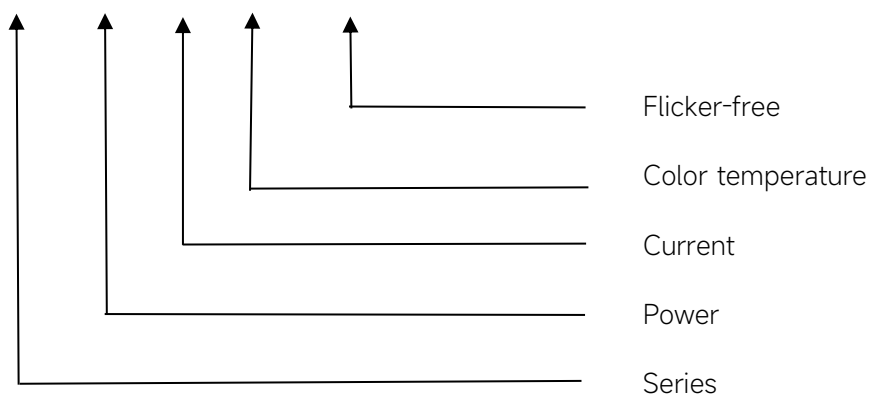


◆ Description

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

Output	Constant Current (mA)	800mA	850mA	900mA	950mA
	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 _{st}	≤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			
	Tc	70°C			
	Storage Temperature	-40°C~+70°C			
	Life time	> 50000h@Tc=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

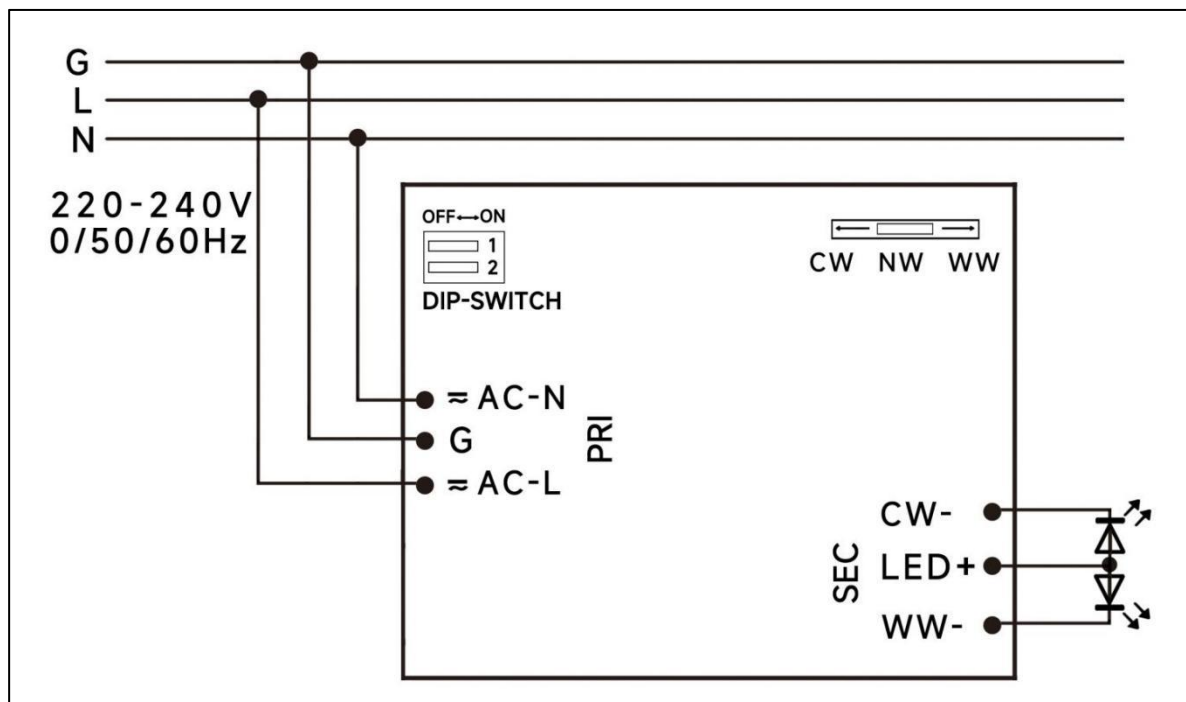
Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	800mA	24-42VDC	52	33.6	--	--
2	850mA	24-42VDC		35.7	ON	--
3	900mA	24-42VDC		37.8	--	ON
*4	950mA	24-42VDC		39.9	ON	ON

CCT	Switch position
	3
CW	ON
WW	--

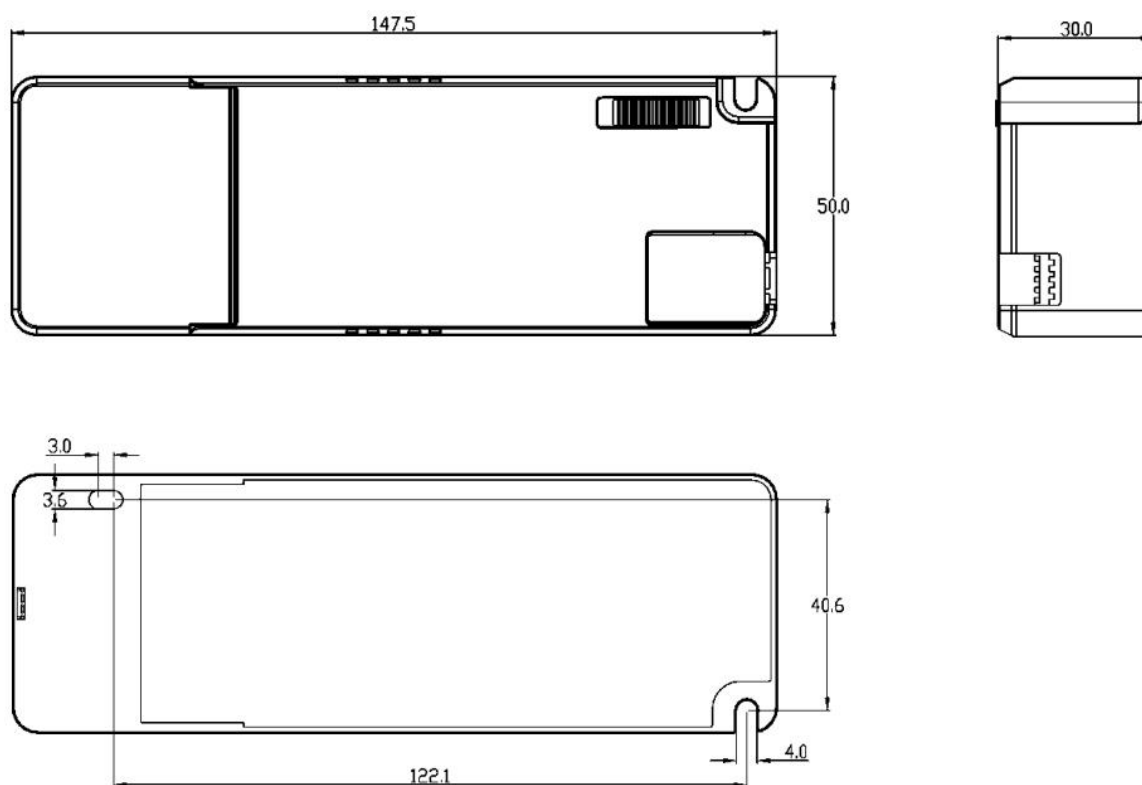
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
20.2A	160μs	25pcs	41pcs	51pcs	27pcs	44pcs	55pcs

◆ Wiring diagram



◆ 2D diagram

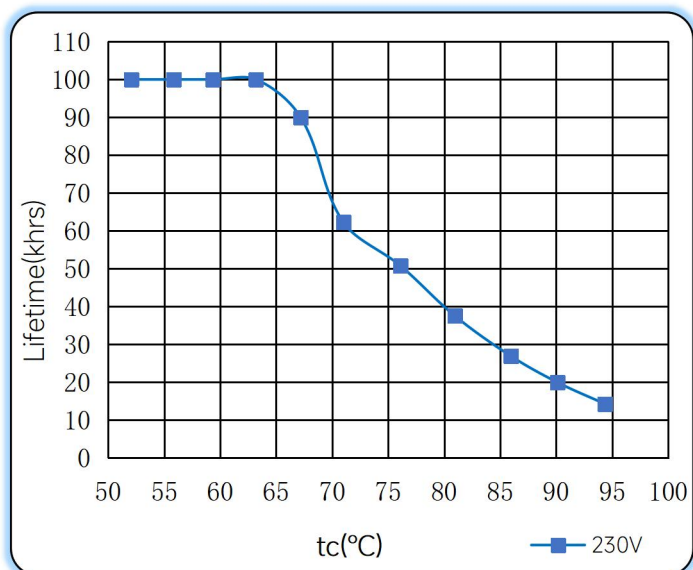


◆ Wiring & Connections

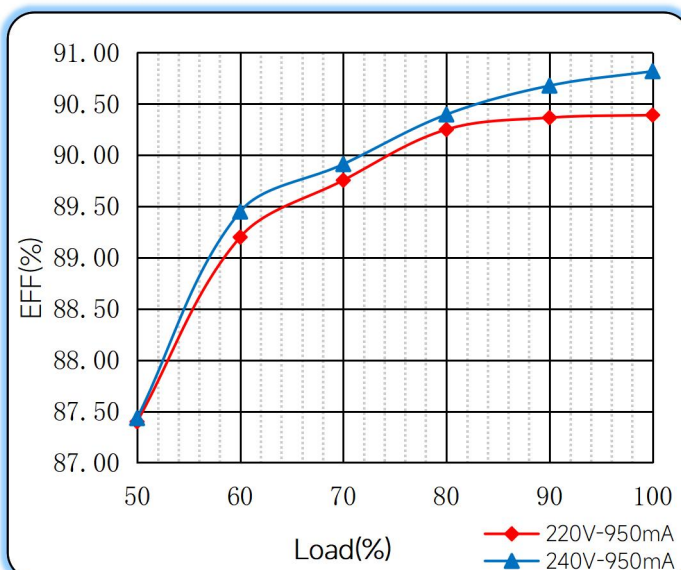
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...2.5mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for FLS-40-950 CCT LS PRO, $I_o=950\text{mA}$

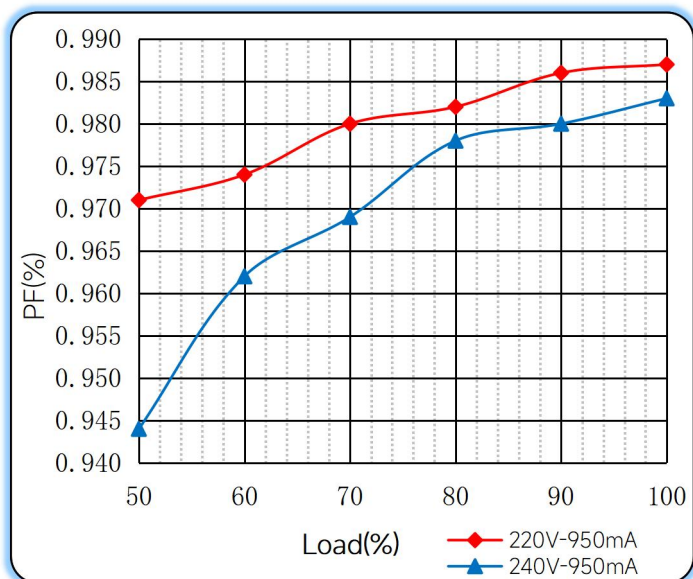
Lifetime vs. Temperature Curve



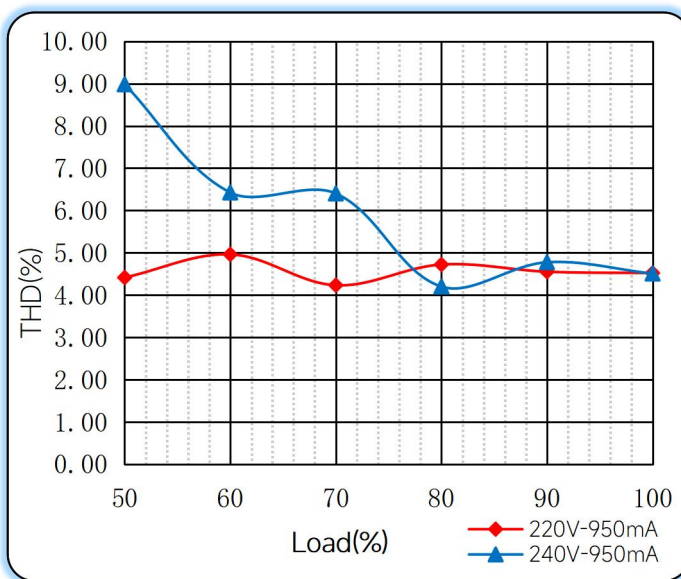
Efficiency vs. Load



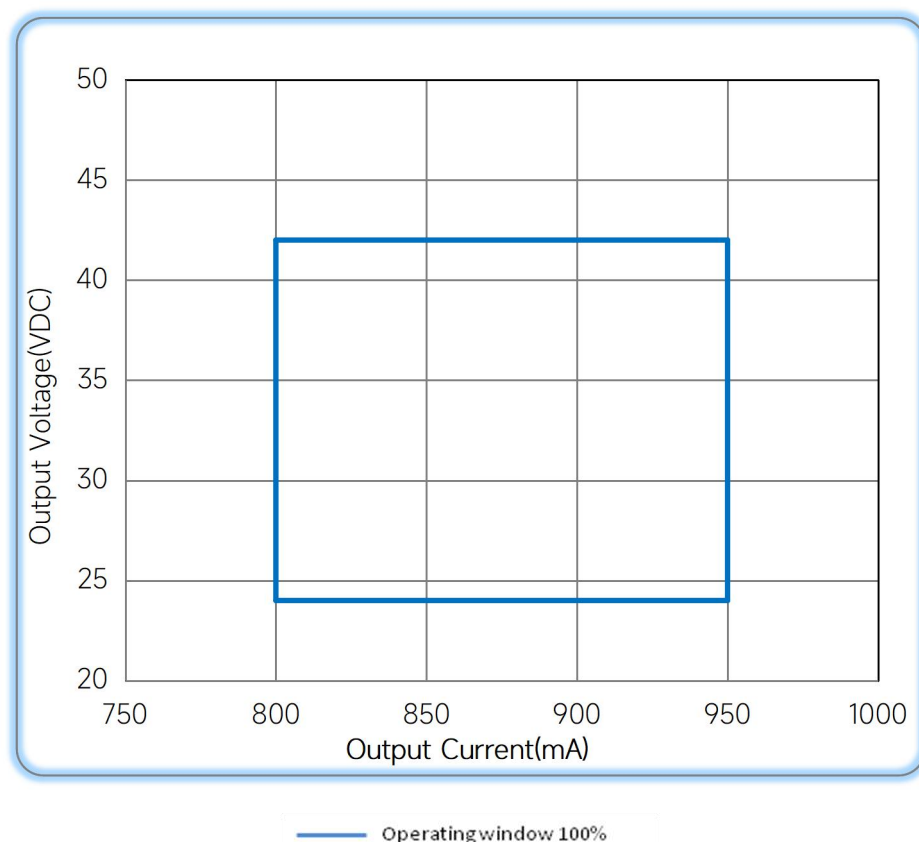
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

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

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



EAGLERISE



Manual