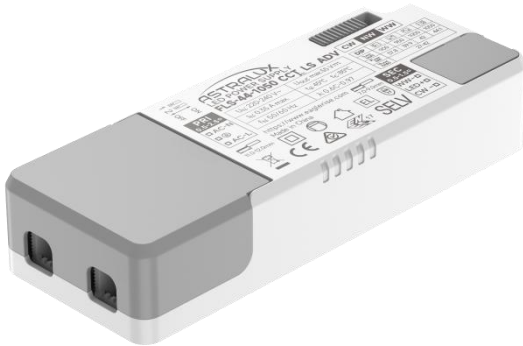


44W Constant Current CCT power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.85C-0.97
- Efficiency: 88%
- 5 years warranty
- IP20

Applications

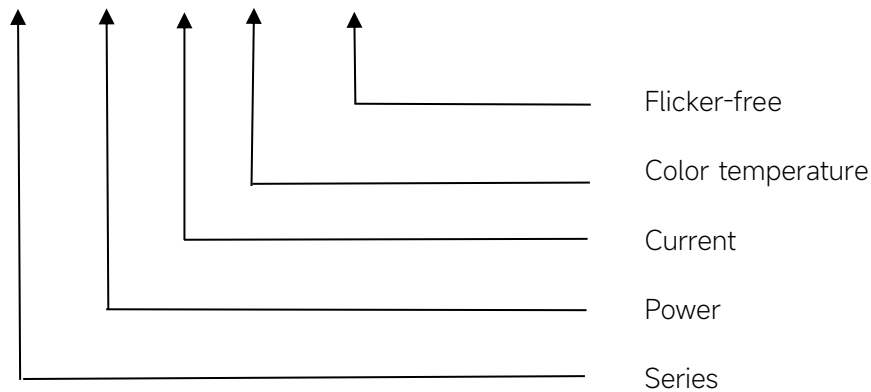
LED panel

◆ Description

FLS-44-1050 CCT LS ADV is a 44W constant current LED driver with 900 to 1050mA output current and a forward voltage range from 27 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 133.5 x 50 x 26 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-44-1050 CCT LS ADV



◆ Specification

Output	Constant Current (mA)	900mA	950mA	1000mA	1050mA
	Voltage Range(VDC)	27-42VDC			
	Unload voltage Max.(VDC)	55VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±4%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	P _{st}	≤1			
	Efficiency(Typ.)	88%@Full load			
Input	Rated input voltage(VAC)	220-240VAC			
	Range of input voltage(VAC)	176-264VAC			
	Range of input voltage(VDC)	176-280VDC			
	Frequency(Hz)	0/50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	0.85C-0.97			
	Input Current max	350mA			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	10%@Full load			
Protection	Over Load Protection	103-120%			
		YES/Auto Resume			
	Over Voltage Protection	55VDC			
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Over Temperature Protection	YES/Auto Resume				
Environment	Operating Temperature	-25°C~+45°C			
	Humidity	20%-90%RH			
	Tc	90°C			
	Storage Temperature	-40°C~+80°C			
	Life time	> 50000h@Tc=80°C			
Surface	Dimension	133.5X50X26mm			
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

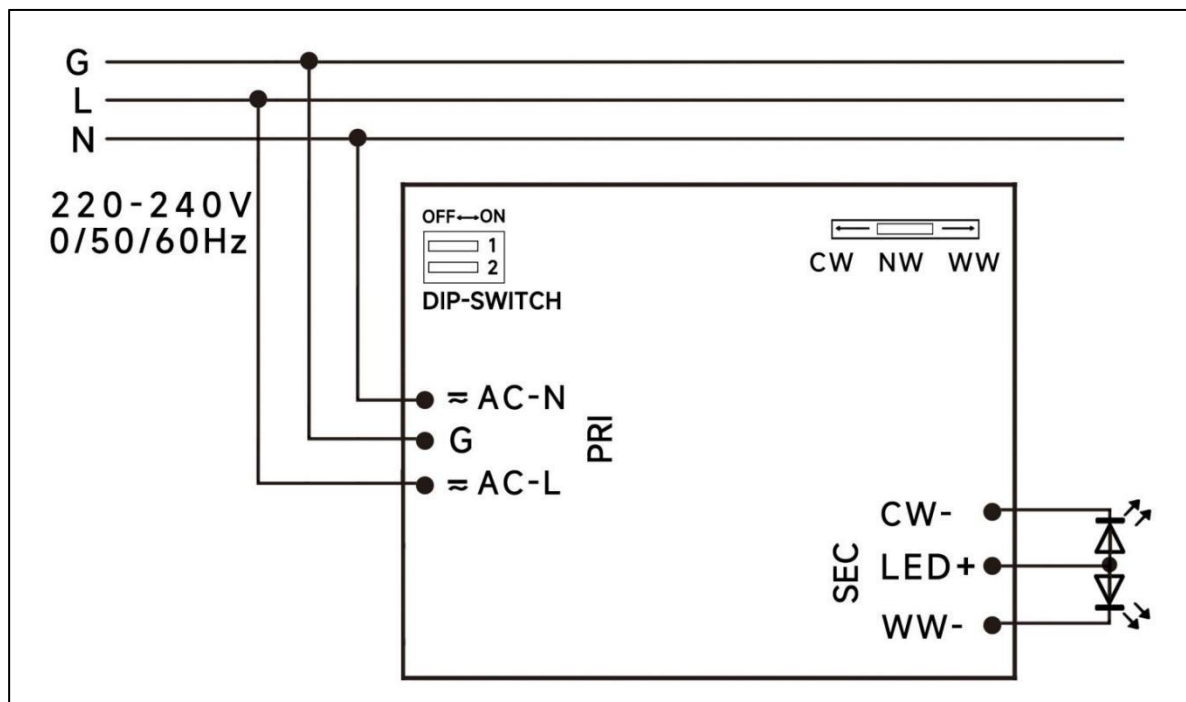
Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	900mA	27-42VDC	55	37.8	--	--
2	950mA	27-42VDC	55	39.9	ON	--
3	1000mA	27-42VDC	55	42	--	ON
*4	1050mA	27-42VDC	55	44.1	ON	ON

* Factory default

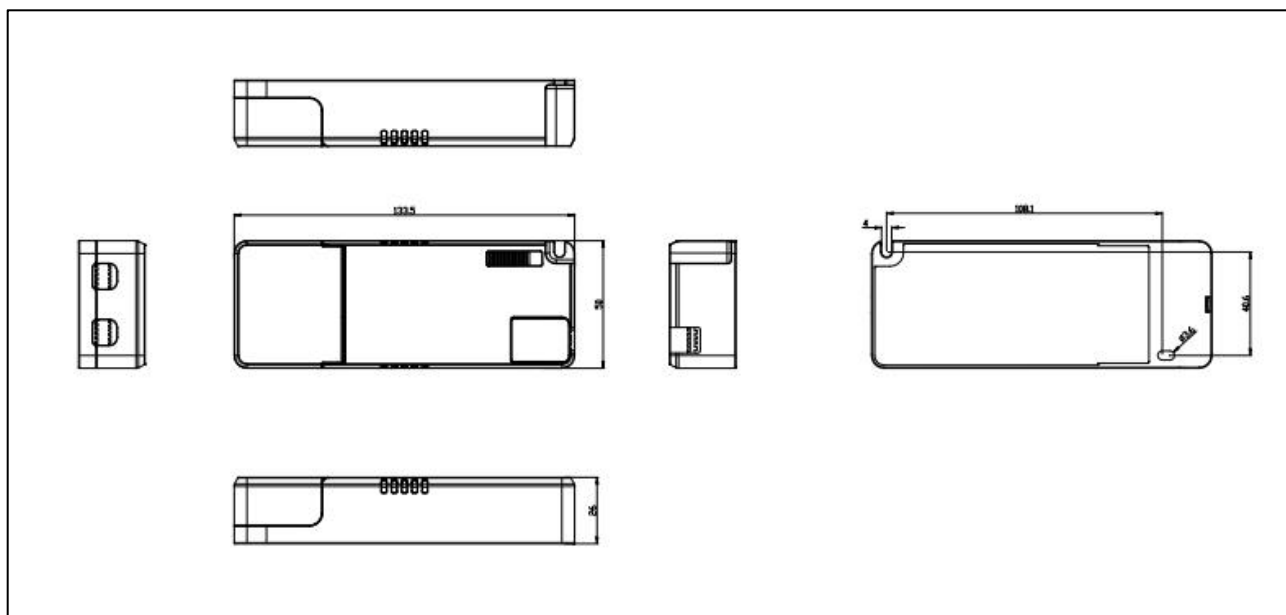
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
19.4A	158μs	22pcs	36pcs	45pcs	22pcs	36pcs	45pcs

◆ Wiring diagram



◆ 2D diagram

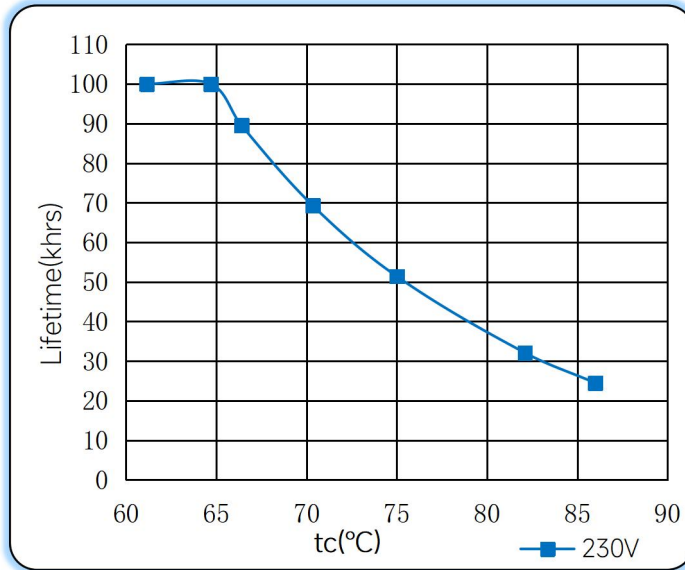


◆ Wiring & Connections

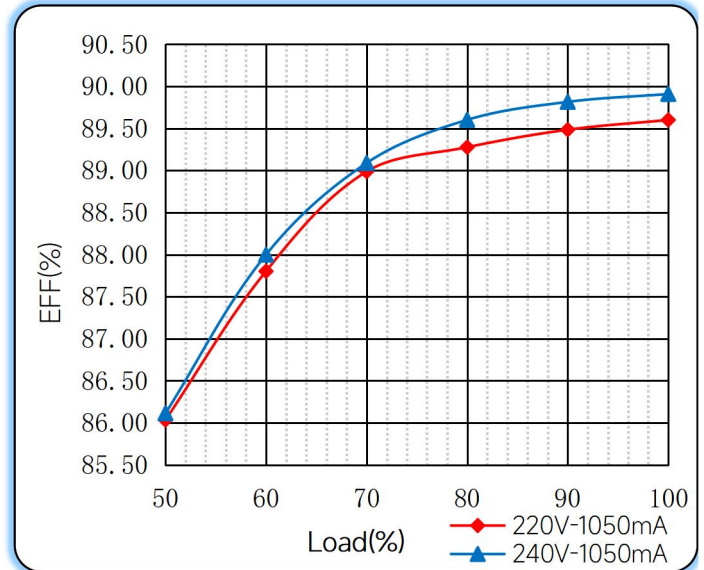
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...2.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for FLS-44-1050 CCT LS ADV, $I_o=1050\text{mA}$

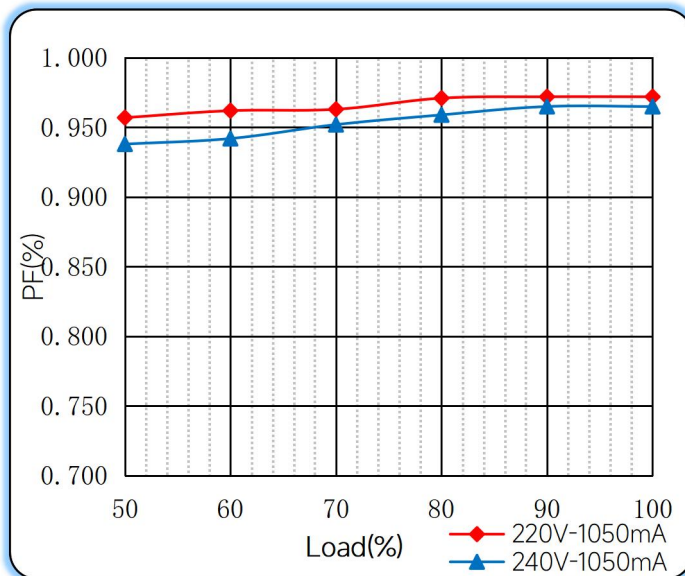
Lifetime vs. Temperature Curve



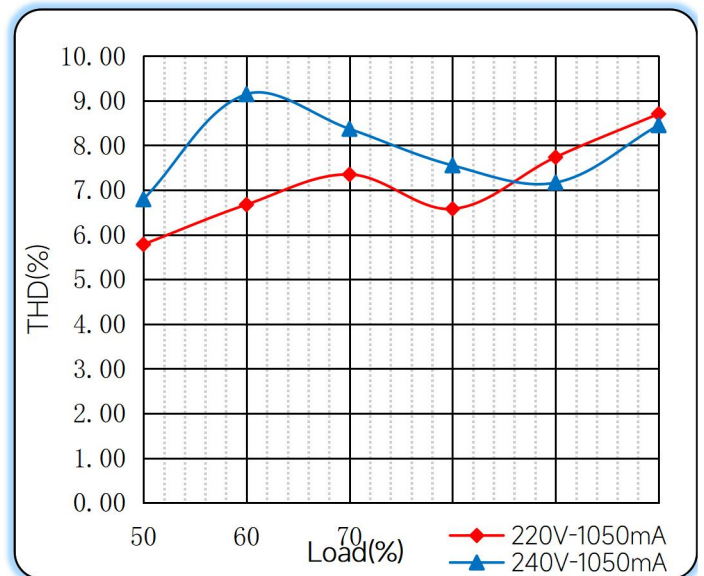
Efficiency vs. Load



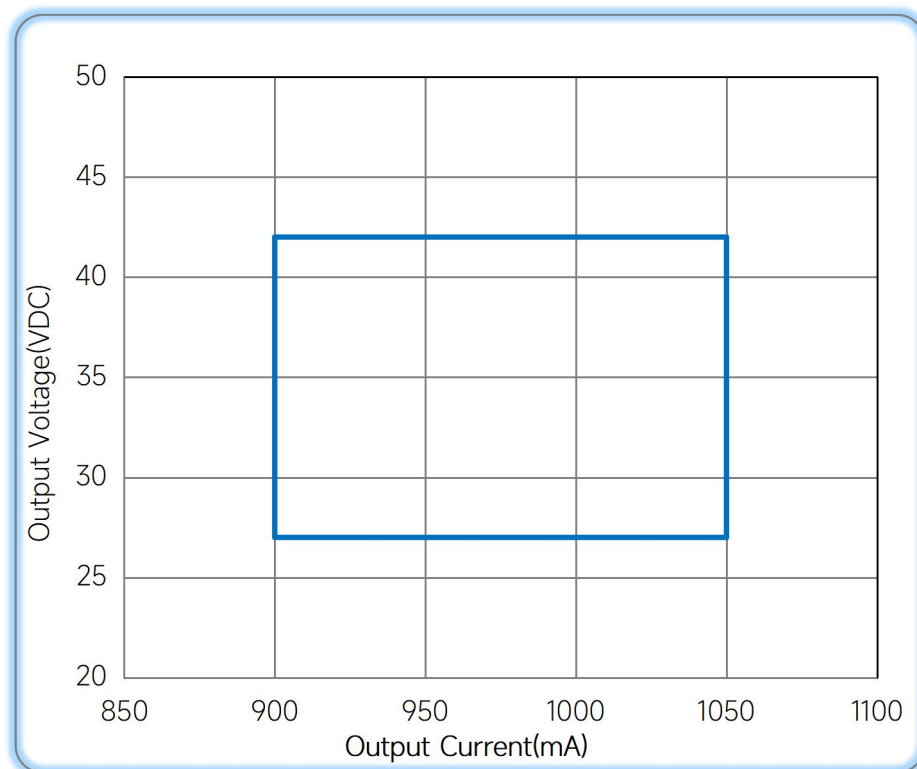
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Tc	85°C	90°C	B	2022/12/29
Power Factor	0.95	0.85C-0.97	C	2023/02/21

Remark: The final interpretation of the contents of the specification belongs to Astralux.

E-mail: sales@astralux-driver.com
 Website : www.astralux-driver.com