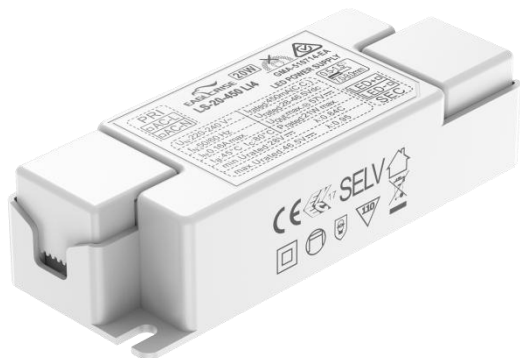


20W Constant Current power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.95
- Efficiency $\geq 85\%$
- 5 years warranty

Applications

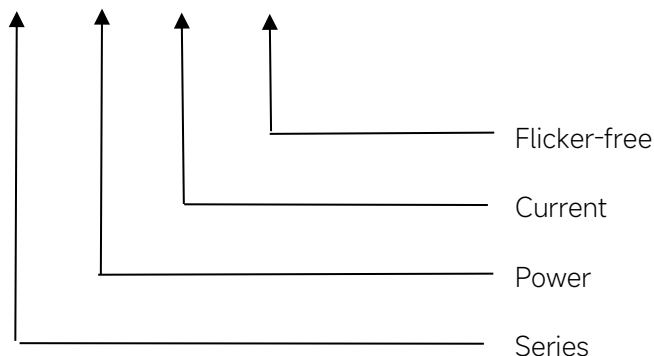
- LED panel, LED down light
- LED spot light

◆ Description

LS-20-XXX LI4 is a 20W constant current LED driver that operates from 176-264Vac input with 350mA to 700mA output current. With it's compact dimensions from 100 x 38 x 25mm 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

LS-20-XXX LI4



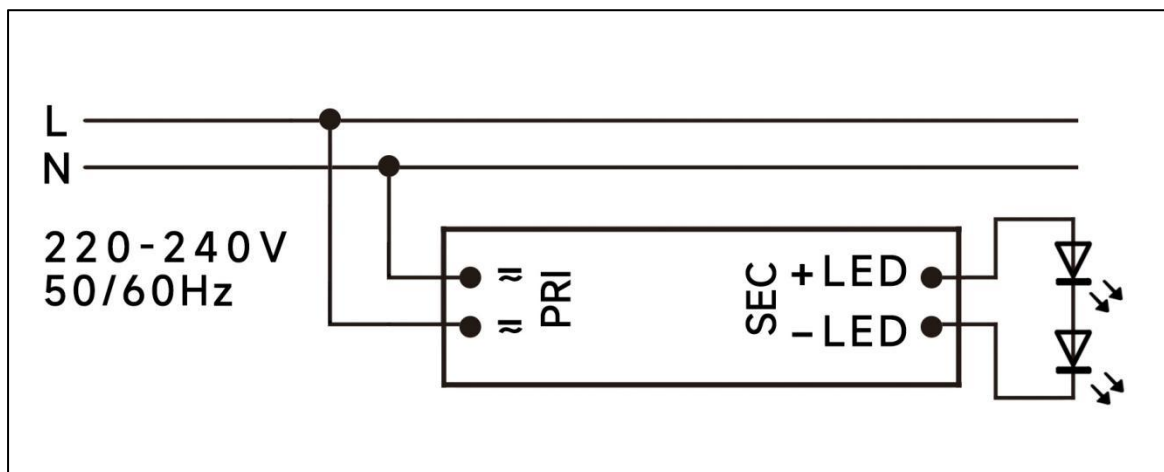
◆ Specification

Output	Constant Current	350mA	450mA	500mA	...	700mA
	Voltage Range	30-50VDC	28-46.5VDC	25-42VDC	...	18-30VDC
	Unload voltage Max.	60VDC	57VDC	50VDC	...	40VDC
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4				
	P _{st}	≤1				
	Efficiency(Typ.)	85%				
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	≥0.7				
	Power Factor	0.95				
	Input Current max	0.16A MAX				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	THD (Typ.)	< 20%				
Protection	Over Load Protection	103-120%				
		YES/Auto Resume				
	Over Voltage Protection	> 60VDC	> 57VDC	> 50VDC	...	> 40VDC
		YES/Auto Resume				
	Short circuit Protection	YES/Auto Resume				
Environment	Operating Temperature	-20℃~-+45℃				
	Humidity	20%-90%RH				
	Tc	80℃				
	Storage Temperature	-25℃~-+60℃				
	Life time	> 50000h@Tc=70℃,230VAC				
Surface	Dimension	100X38X25(LXWXH)mm				
standards	EN 61347-1; EN61347-2-13; EN62384					
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℃ 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.					

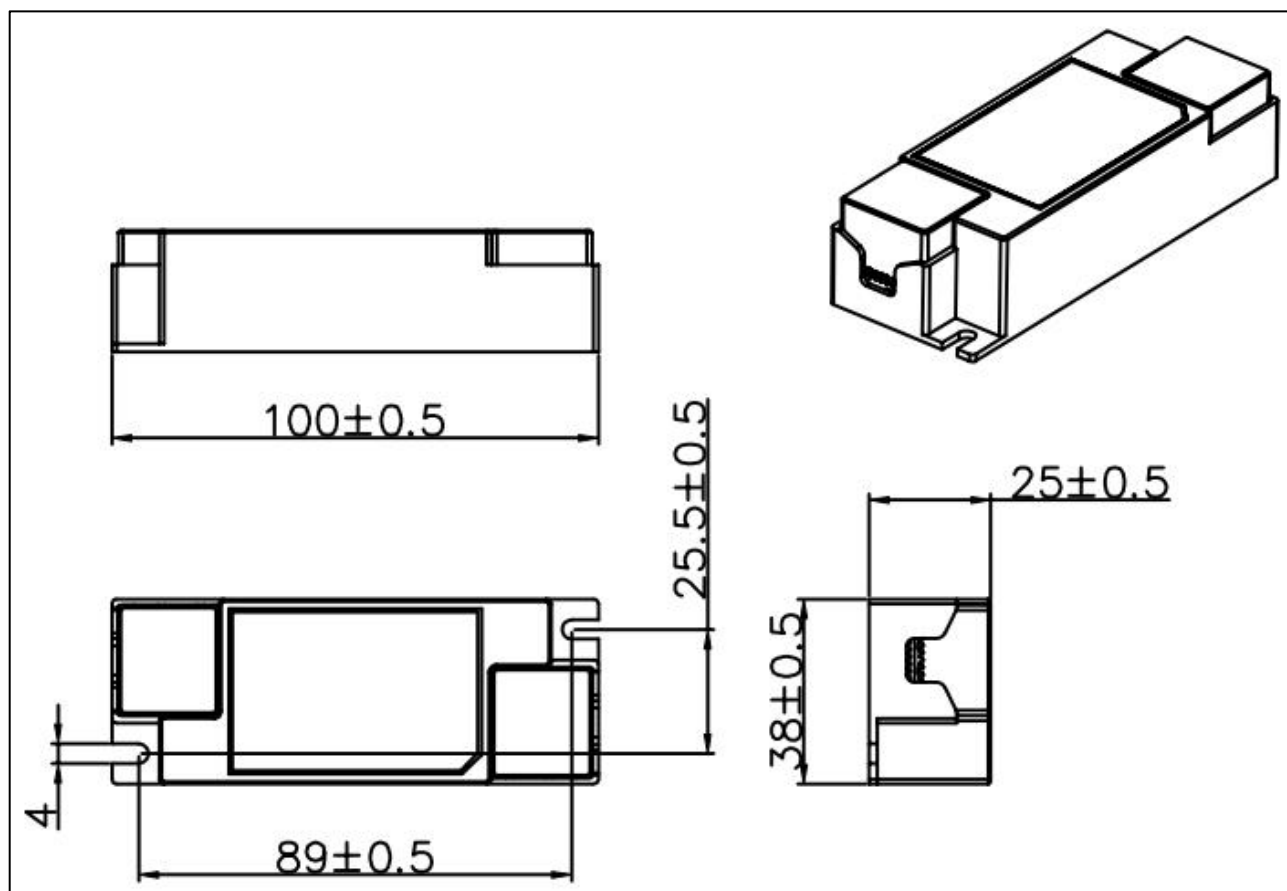
◆ Model list

Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-20-350 LI4	220-240	0.16	50/60	350	30-50	60	17.5
2	LS-20-450 LI4				450	28-46.5	57	21
3	LS-20-500 LI4				500	25-42	50	
4	LS-20-550 LI4				550	23-38	50	
5	LS-20-600 LI4				600	21-35	45	
6	LS-20-700 LI4				700	18-30	40	

◆ Wiring diagram



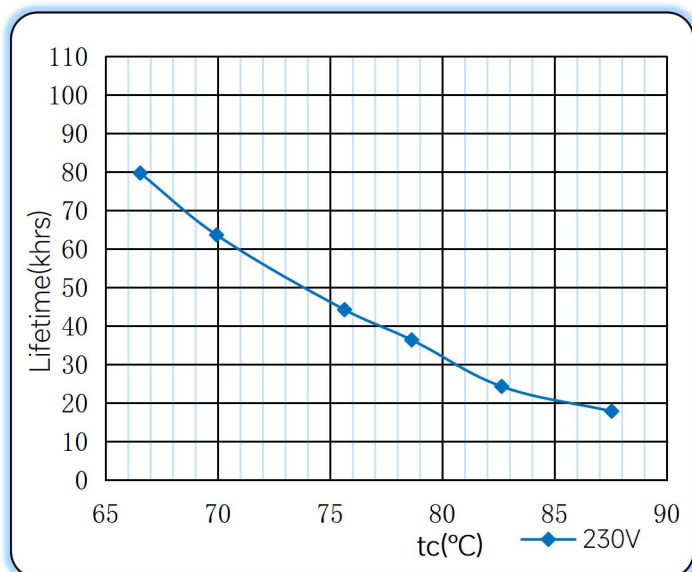
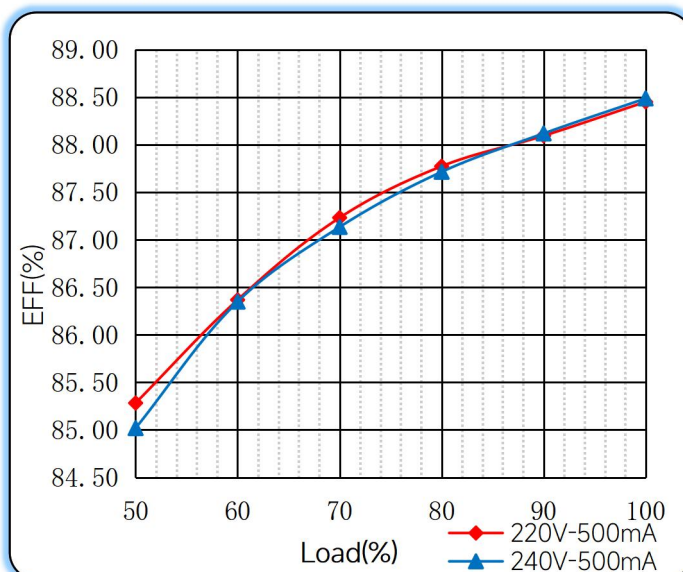
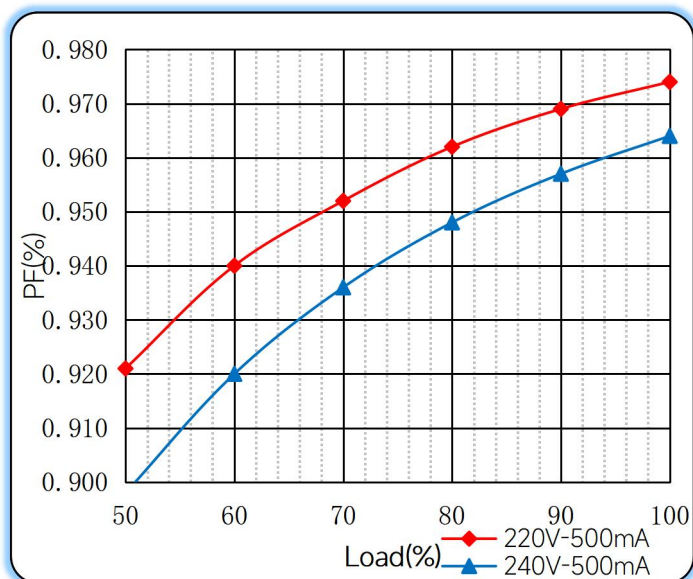
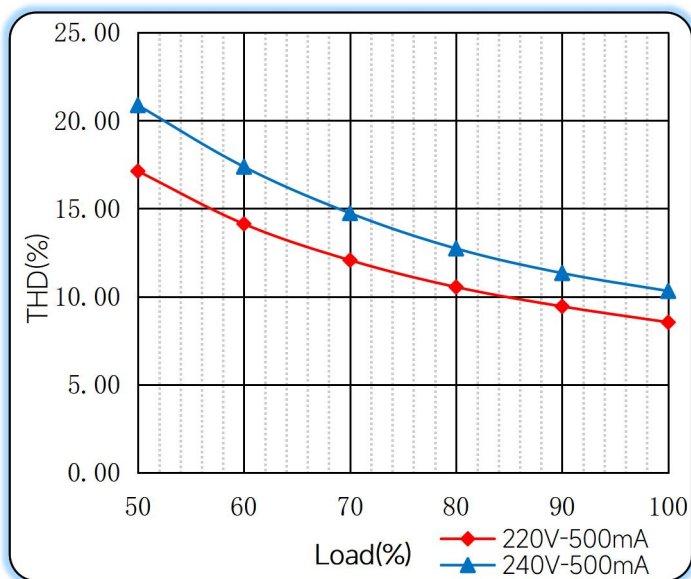
◆ 2D diagram



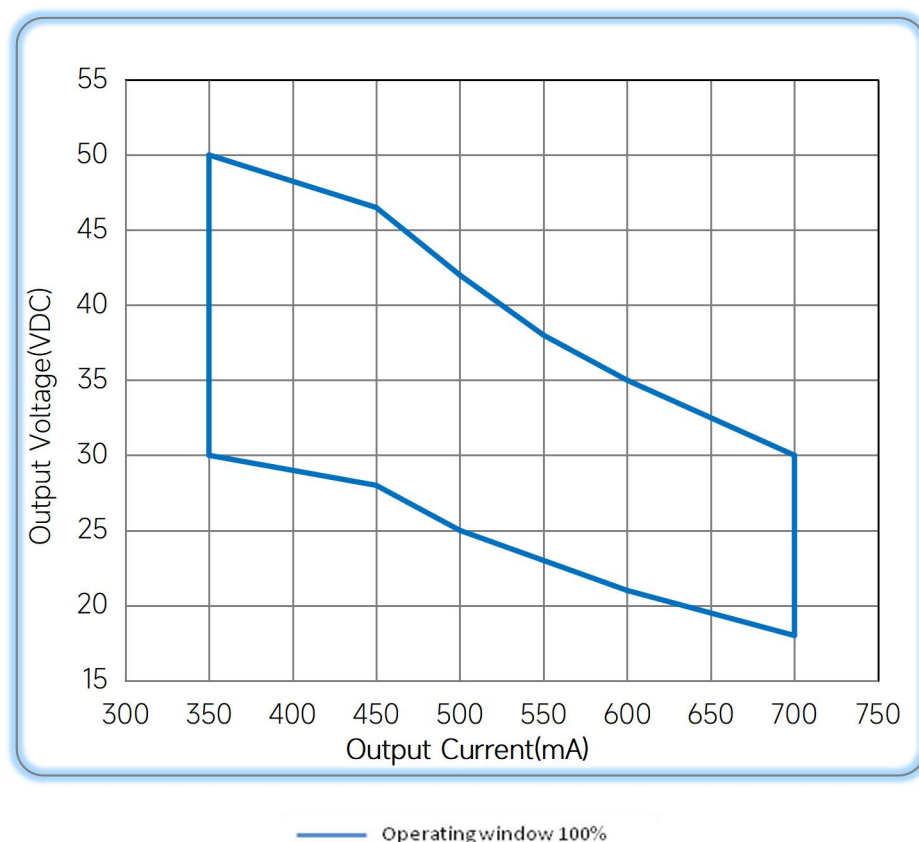
◆ Wiring & Connections

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...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-20-500 LI4, I_o=500mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

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

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

E-mail: sales@eaglerise.com

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



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Manual