

20W Constant Current -LS Series

LS-20-XXX LX



■Approve



■Features

- Class II, SELV, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor 0.9C
- Efficiency ≥86%
- 5 years warranty

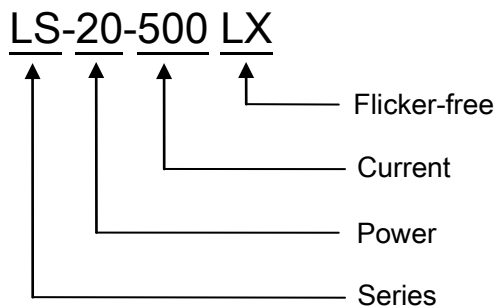
■Applications(Typ.)

- LED panel
- LED spot lights
- LED down lights
- COB lights

■Description

LS-20-XXX LX is a 20W constant current LED driver with 350 to 550mA output current. With it's compact dimensions from 97x 43 x 26mm it is easy to integrate in LED Panel, spot, down lights and COB lights. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■Model code



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■Specification

Input	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	Frequency(Hz)	50/60 Hz				
	Power Factor	0.9C@220-240VAC				
	Input Current max	0.16A MAX. @Full Load,198VAC (Please see Model list below for details.)				
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Inrush Current	30A Max.				
	THD	5% Typ.				
	Leakage Current	< 0.5mA(240VAC)				
Output	Constant Current Max. *Note.3	350mA	400mA	450mA	500mA	550mA
	Unload voltage Max.	50 VDC				
	Voltage Range(VDC)	30-42VDC				
	Rated power	14.7W Max.	16.8 W Max.	18.9 W Max.	21 W Max.	23.1 W Max.
	Current Accuracy	±5%				
	Voltage Regulation	±3% @Full Load				
	Load Regulation	±3%				
	Hold-up Time	1s max.@Full Load				
	Ripple& Noise *Note.2	< 21mAp-p	< 24mAp-p	< 27mAp-p	< 30mAp-p	< 33mAp-p
	Efficiency(Typ.)	≥86%				
Protection	Over Load Protection	103-120%				
		Protection type: Auto Resume				
	Over Voltage Protection	> 50VDC				
		Protection type: Auto Resume				
Short circuit Protection	Protection type: Auto Resume					
Environment	Operating Temperature	-20°C...+45°C				
	tc	75°C				
	Storage Temperature	-25°C...+60°C				
	Life time	> 30,000h@ta=45°C				
	Humidity	10%-90%RH				
Others	Dimension	97X43X26(LXWXH)mm				
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384				
	Withstand voltage	Input-Output : 3750V/5mA/1min				
	Isolation resistance	Input-Output : ≥4MΩ@500VDC				
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3				
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —1000V;				
Note	1.All parameters NOT specially mentioned are measured at 240VAC 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.Output current can be from 350mA to 550mA and increasing in multiples of 50mA. Please see Model list below and contact EAGLERISE for details.					

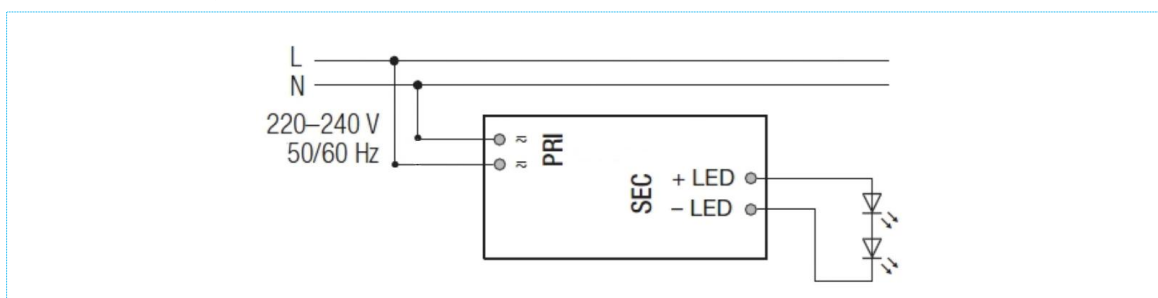
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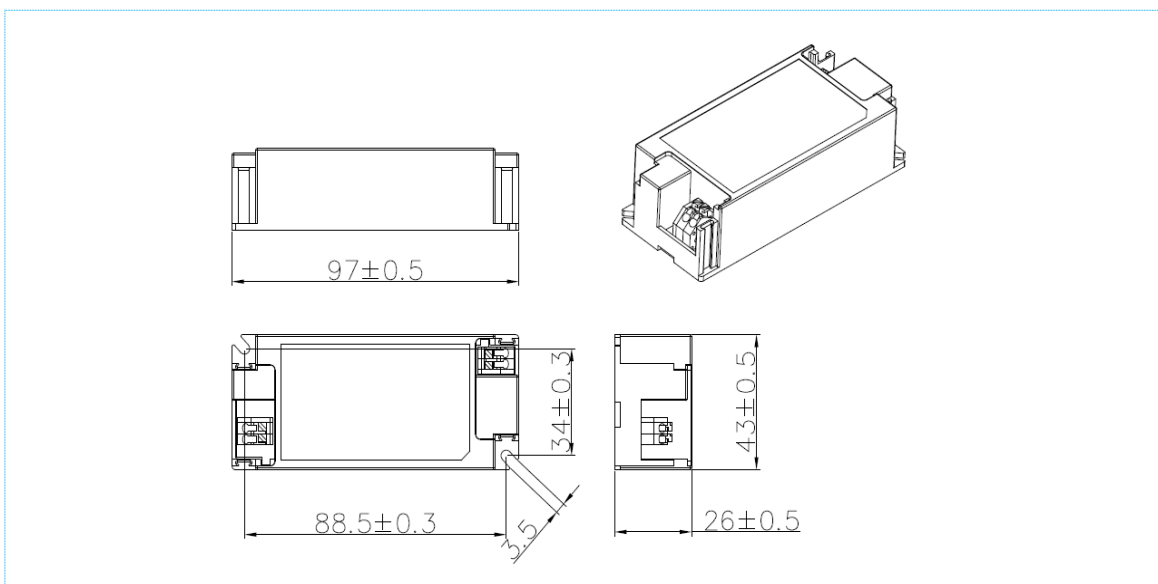
■Model list

NO.	Model number	Input			Output			Max. Prated(W)
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
1	LS-20-350 LX	220-240	0.1	50/60	350	30-42	50	14.7
2	LS-20-400 LX	220-240	0.11	50/60	400	30-42	50	16.8
3	LS-20-450 LX	220-240	0.13	50/60	450	30-42	50	18.9
4	LS-20-500 LX	220-240	0.15	50/60	500	30-42	50	21
5	LS-20-550 LX	220-240	0.16	50/60	550	30-42	50	23.1

■Connection diagram



■2D diagram



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■ Operating window

