

8W Constant Current -LS Series

LS-8-XXX LI



■Approve



■Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor 0.9C
- Efficiency ≥78%
- 5 years warranty

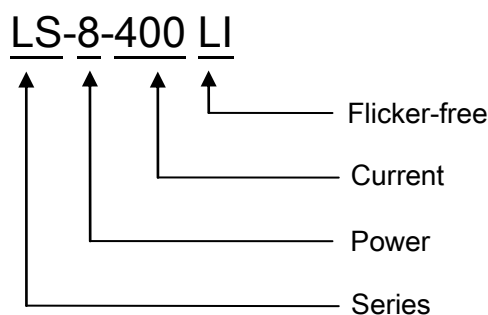
■Applications

- LED panel
- LED spot light
- LED down light
- COB light

■Description

LS-8-XXX LI is a 8W constant current LED driver that operates from 176-264Vac input with 120 to 400mA output current. With it's compact dimensions from 100 x 38 x 25mm 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	176-264VAC				
	DC voltage range	176-280V				
	Frequency(Hz)	0/50/60 Hz				
	Power Factor	0.9C@Full Load,240VAC				
	Input Current max	0.06A MAX. @Full Load,176VAC				
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Inrush Current	20A Max.				
	THD	< 25% @Full Load,240VAC				
	Leakage Current	< 0.5mA(240VAC)				
Output	Constant Current Max. *Note.3	150mA	200mA	300mA	...	400mA
	Unload voltage Max.	63VDC	50VDC	35VDC	...	28VDC
	Voltage Range(VDC)	27-53VDC	22-42VDC	14-27VDC	...	10-20VDC
	Rated power	8W Max.	8.4W Max.	8.1W Max.	...	8W Max.
	Current Accuracy	±7%				
	Voltage Regulation	±3% @Full Load				
	Load Regulation	±5%@220-240VAC				
	Hold-up Time	1s max.@Full Load				
	Ripple& Noise *Note.2	≤±3% @Full Load,240VAC				
	Efficiency(Typ.)	≥78%				
Protection	Over Load Protection	103-120%				
		Protection type: Auto Resume				
	Over Voltage Protection	> 63VDC	> 50VDC	> 35VDC	...	> 28VDC
		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@45°C				
	Humidity	20%-90%RH				
Others	Dimension	100X38X25(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 120mA, 180mA or from 150mA to 400mA and increasing in multiples of 50mA. Please see Model list below and contact EAGLERISE for details.					

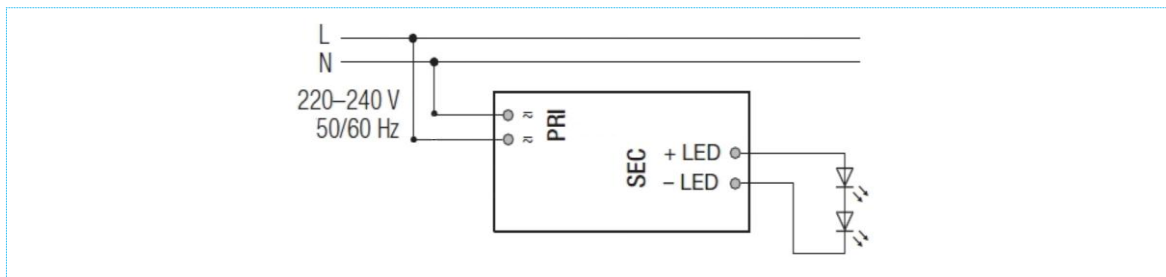
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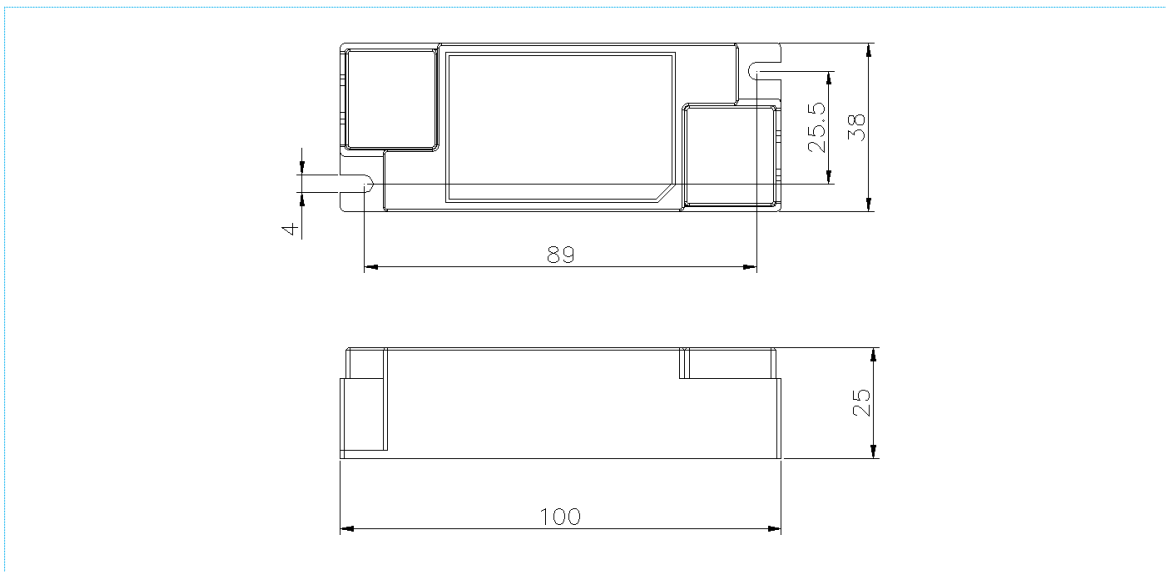
■Model list

No.	Model number	Input			Output			
		Voltage (VAC)	Max.Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	Max. P _{rated} (W)
1	LS-8-120 LI	220-240	0.06	50/60	120	27-54	63	6.5
2	LS-8-150 LI	220-240	0.06	50/60	150	27-53	63	8
3	LS-8-180 LI	220-240	0.06	50/60	180	22-42	50	7.6
4	LS-8-200 LI	220-240	0.06	50/60	200	22-42	50	8.4
5	LS-8-250 LI	220-240	0.06	50/60	250	16-32	42	8
6	LS-8-300 LI	220-240	0.06	50/60	300	14-27	35	8.1
7	LS-8-350 LI	220-240	0.06	50/60	350	12-24	32	8.4
8	LS-8-400 LI	220-240	0.06	50/60	400	10-20	28	8

■Connection diagram



■2D diagram

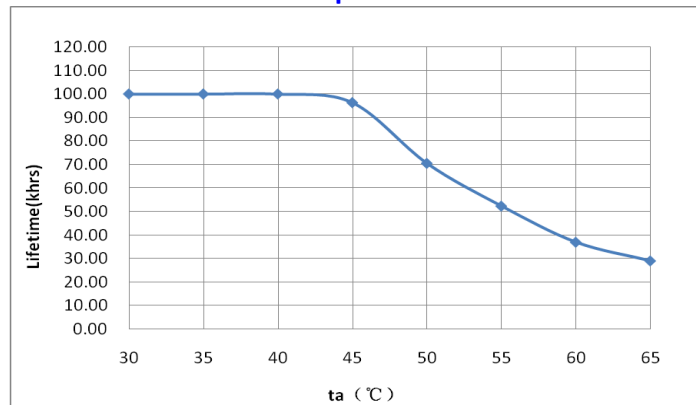


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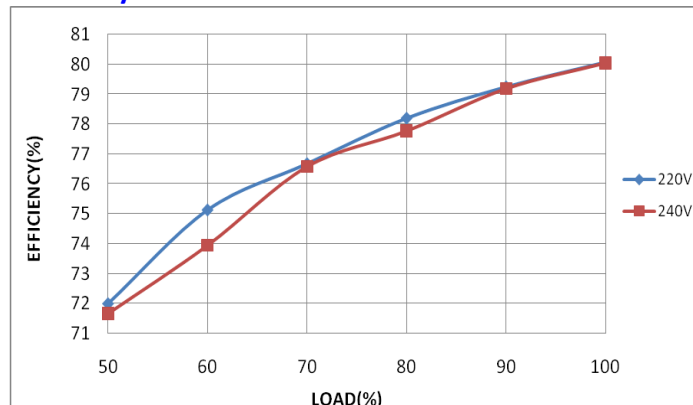
LS-8-XXX LI

■Curve for LS-8-400 LI

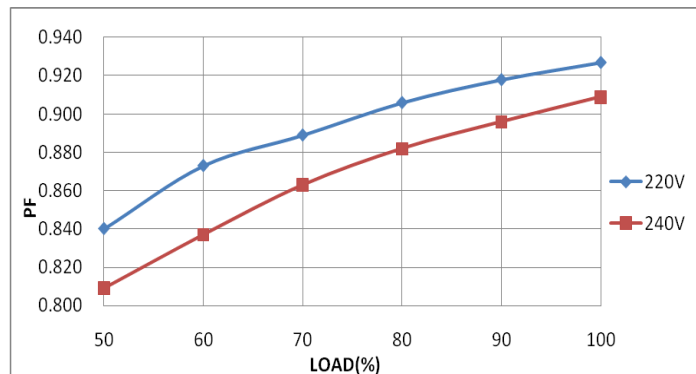
Lifetime vs. Ambient Temperature Curve



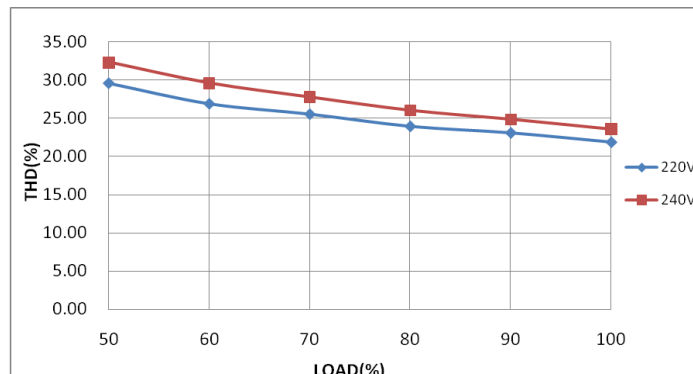
Efficiency vs. Load



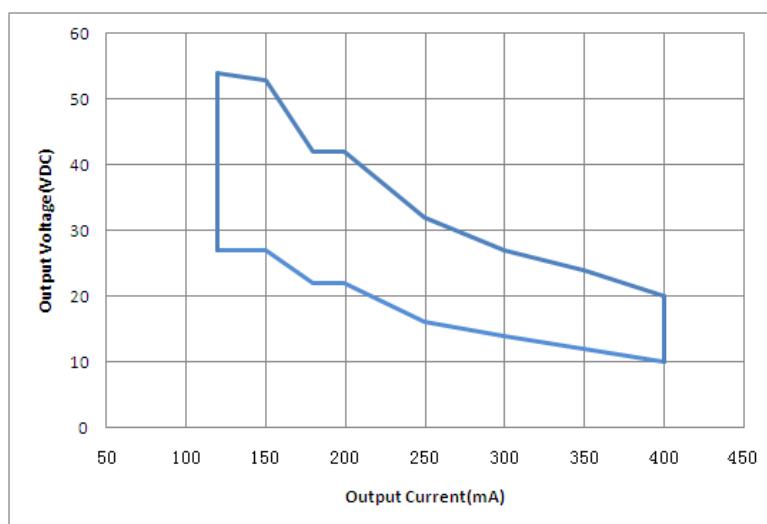
Power Factor Characteristics



THD vs. Load



■Operating window



— Operating window 100%