

30W LED Driver Constant current

LS-30-XXX LI3



■ Approve



■ Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.95
- Efficiency ≥87%
- 5 years warranty

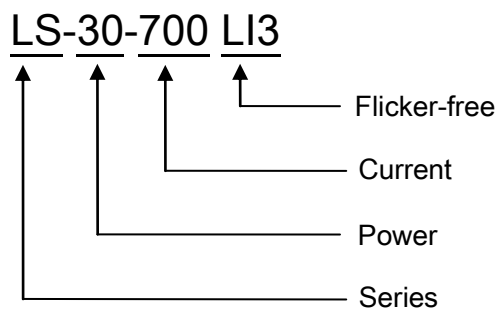
■ Applications

- LED strips
- LED panel
- Down light
- Spot light

■ Description

LS-30-XXXX LI3 is a 30W constant current LED driver that operates from 176-264Vac input with 300 to 700mA output current. With its compact dimensions from 116 x 42.5 x 28mm it is easy to integrate in LED Panel and down light products. 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	> 0.95@240Vac, full load				
	Input Current max	0.24A MAX. @Full Load,176Vac				
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Inrush Current	40A Max.				
	THD	< 10% @Full Load,240VAC				
	Leakage Current	< 0.7mA(240VAC)				
Output	Constant Current Max. *Note.3	300mA	500mA	700mA	...	900mA
	Unload voltage Max.	115VDC	70VDC	53VDC	...	45VDC
	Voltage Range(VDC)	67-100VDC	36-60VDC	25-43VDC	...	19.5-35VDC
	Rated power	30W Max.	30W Max.	30.1W Max.	...	31.5W Max.
	Current Accuracy	±5%@220-240Vac				
	Voltage Regulation	±5% @220-240Vac, full load				
	Load Regulation	±5%@220-240Vac				
	Hold-up Time	1s max.@Full Load				
	Ripple& Noise *Note.2	≤±3% @Full Load,240VAC				
	Efficiency(Typ.)	≥87%				
Protection	Over Load Protection	103-120% Protection type: Auto Resume				
	Over Voltage Protection	> 115VDC	> 70VDC	> 53VDC	...	> 45VDC
		Protection type: Auto Resume				
	Short circuit Protection	Protection type: Auto Resume				
Environment	Operating Temperature	-20°C...+45°C				
	tc	85°C				
	Storage Temperature	-25°C...+60°C				
	Life time	>50,000H@ta=45°C				
	Humidity	20%-90%RH				
Others	Dimension	116X42.5X28(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 630mA or from 300mA to 900mA and increasing in multiples of 50mA. Please see Model list below and contact EAGLERISE for details.					

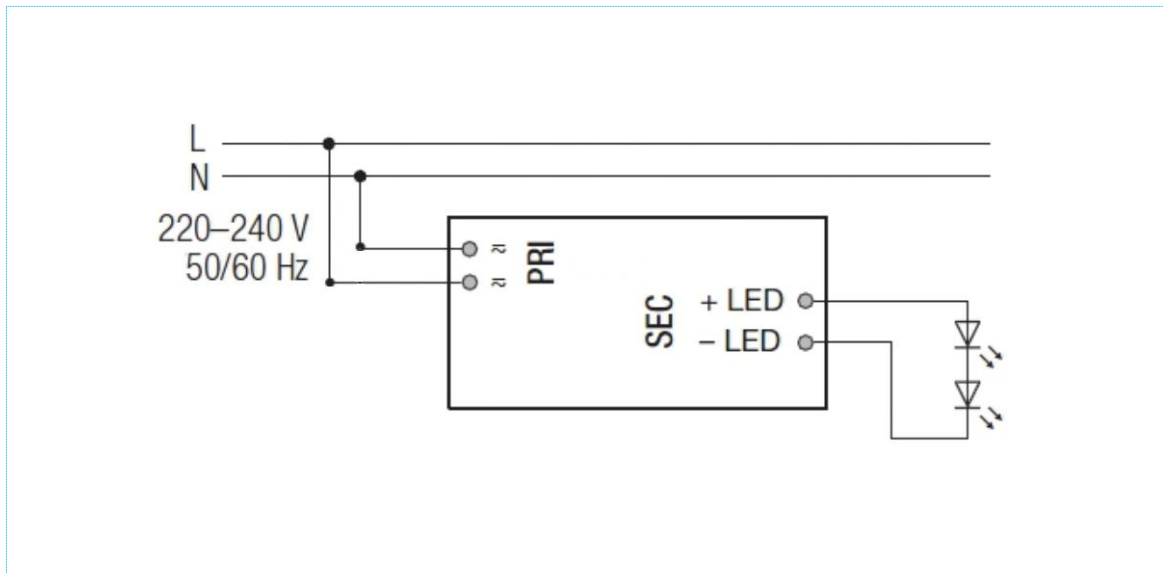
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Model list

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. Power(W)
1	LS-30-300 LI3	220-240	0.24	50/60	300	67-100	115	30
2	LS-30-350 LI3	220-240	0.24	50/60	350	51.5-86	96	30.1
3	LS-30-400 LI3	220-240	0.24	50/60	400	45-75	85	30
4	LS-30-450 LI3	220-240	0.24	50/60	450	40-67	77	30.2
5	LS-30-500 LI3	220-240	0.24	50/60	500	36-60	70	30
6	LS-30-550 LI3	220-240	0.24	50/60	550	30-54	63	29.7
7	LS-30-600 LI3	220-240	0.24	50/60	600	30-50	60	30
8	LS-30-630 LI3	220-240	0.24	50/60	630	27.5-46	56	29
9	LS-30-650 LI3	220-240	0.24	50/60	650	27.5-46	56	29.9
10	LS-30-700 LI3	220-240	0.24	50/60	700	25-43	53	30.1
11	LS-30-750 LI3	220-240	0.24	50/60	750	25-42	50	31.5
12	LS-30-800 LI3	220-240	0.24	50/60	800	22.5-38	48	30.4
13	LS-30-850 LI3	220-240	0.24	50/60	850	21-35.5	45	30.2
14	LS-30-900 LI3	220-240	0.24	50/60	900	19.5-35	45	31.5

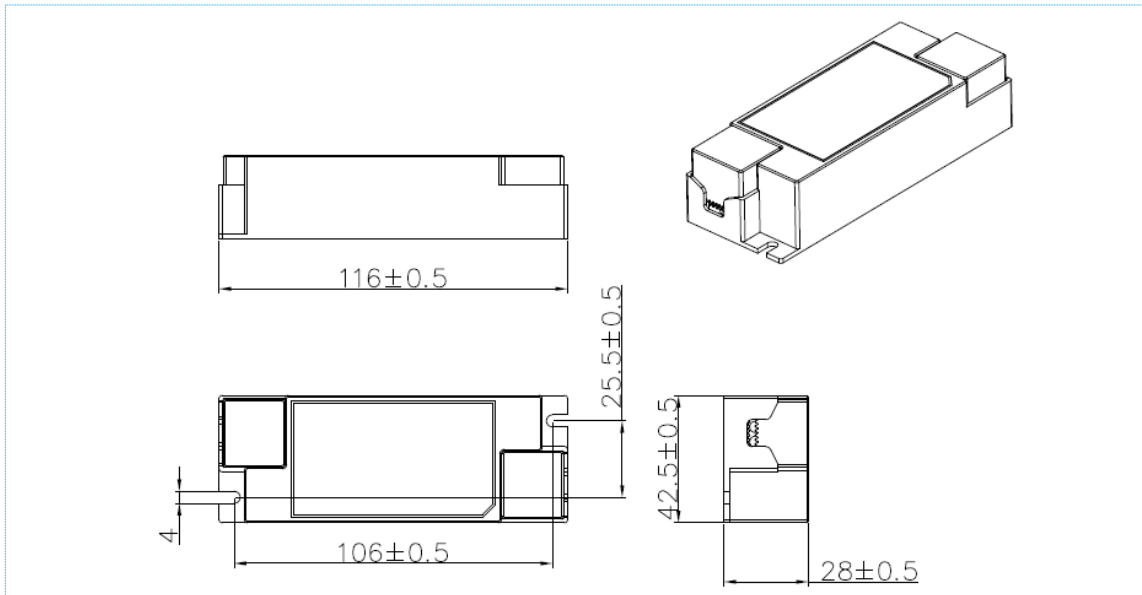
Wiring diagram



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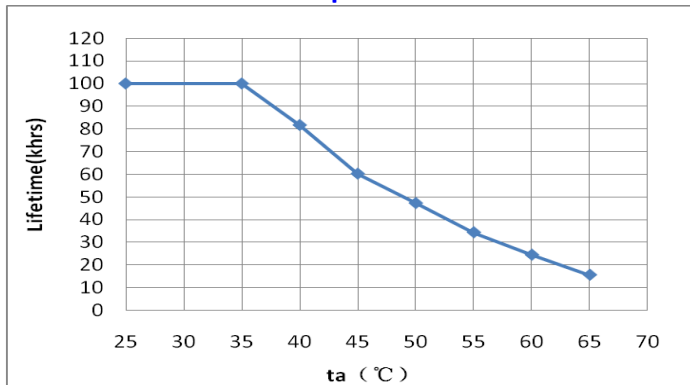
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■2D diagram

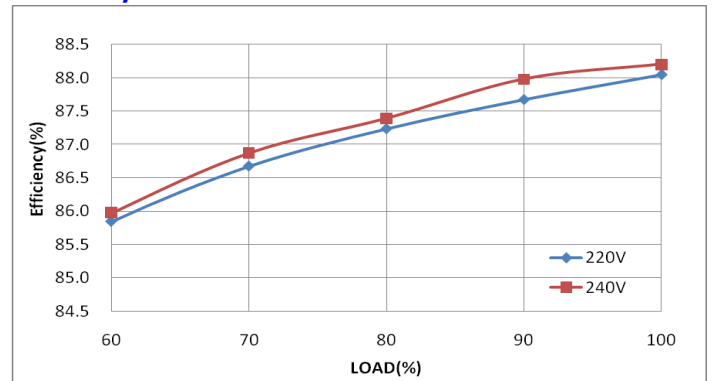


■Curve for LS-30-700 LI3

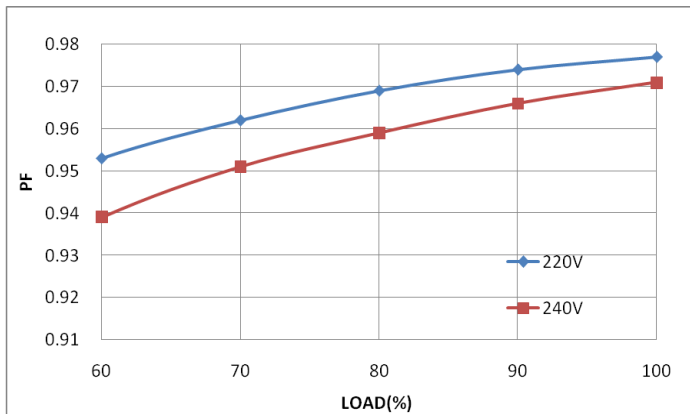
Lifetime vs. Ambient Temperature Curve



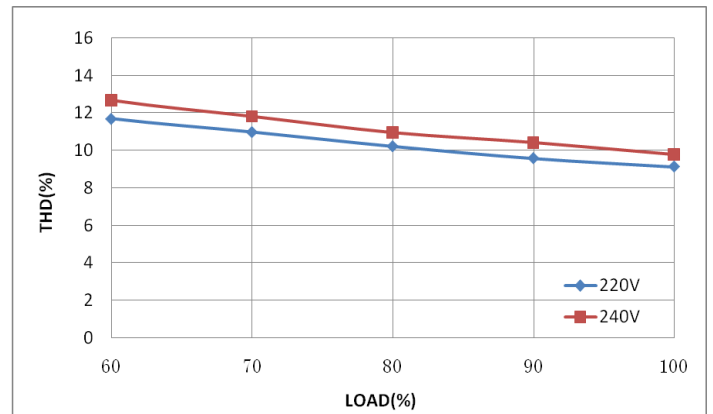
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



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■ Operating window

