

60W Constant Voltage-LS Series

LS-60-XX LI1



■Approve



■Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor >0.9
- Efficiency $\geq 88\%$
- 5 years warranty

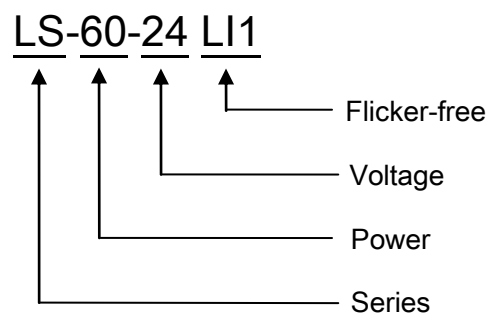
■Applications

- LED strips
- Pendant light

■Description

LS-60-XX LI1 is a 60W constant voltage LED driver that operates from 176-264Vac input with 12V or 24V output voltage. With it's compact dimensions from 187 x 45 x 30.5 mm it is easy to integrate in LED strips and pendant 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	
	Frequency(Hz)	50/60 Hz	
	Power Factor	> 0.9@220-240VAC, Full load	
	Input Current max	0.47A MAX. @Full Load,176VAC	
	Start-up time	< 0.5S	
	Unload Power Consumption	≤0.5W	
	Inrush Current	45A Max.	
	THD	< 10% @220-240VAC, Full load	
	Leakage Current	< 0.5mA(240VAC)	
Output	Constant Voltage	12VDC	24VDC
	Current Range	0-5A	0-2.5A
	Rated power	60W Max.	
	Voltage Accuracy	±5%	
	Voltage Regulation	±1% @Full Load	
	Load Regulation	≤2%	
	Hold-up Time	1s max.@Full Load	
	Voltage Ripple& Noise *Note.2	≤1% @Full Load , 230VAC	
	Output LF Voltage ripple(<120Hz)	≤1% @Full Load , 230VAC	
	Efficiency(Typ.)	≥88%	
Protection	Over Load Protection	105-150% Protection type: Auto Resume	
	Over Voltage Protection	> 12.6VDC	> 25.2VDC Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume	
	Over Temperature protection	Protection type: Auto Resume	
	Environment	Operating Temperature	-10°C...+45°C
tc		85°C	
Storage Temperature		-20°C...+60°C	
Life time		> 30,000h@45°C	
Temperature coefficient		±0.03%/°C(0-45°C)	
Humidity		20%-90%RH	
Others	Dimension	187X45X30.5(LXWXH)mm	
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62493	
	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.		

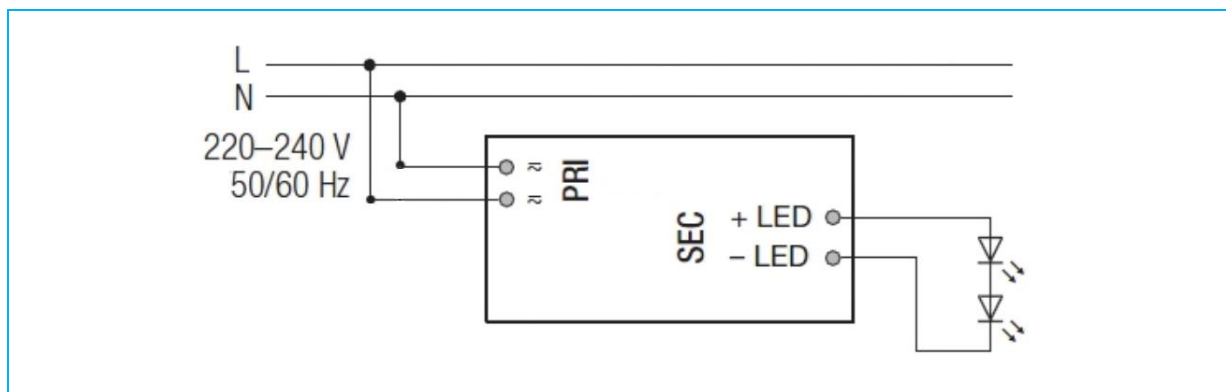
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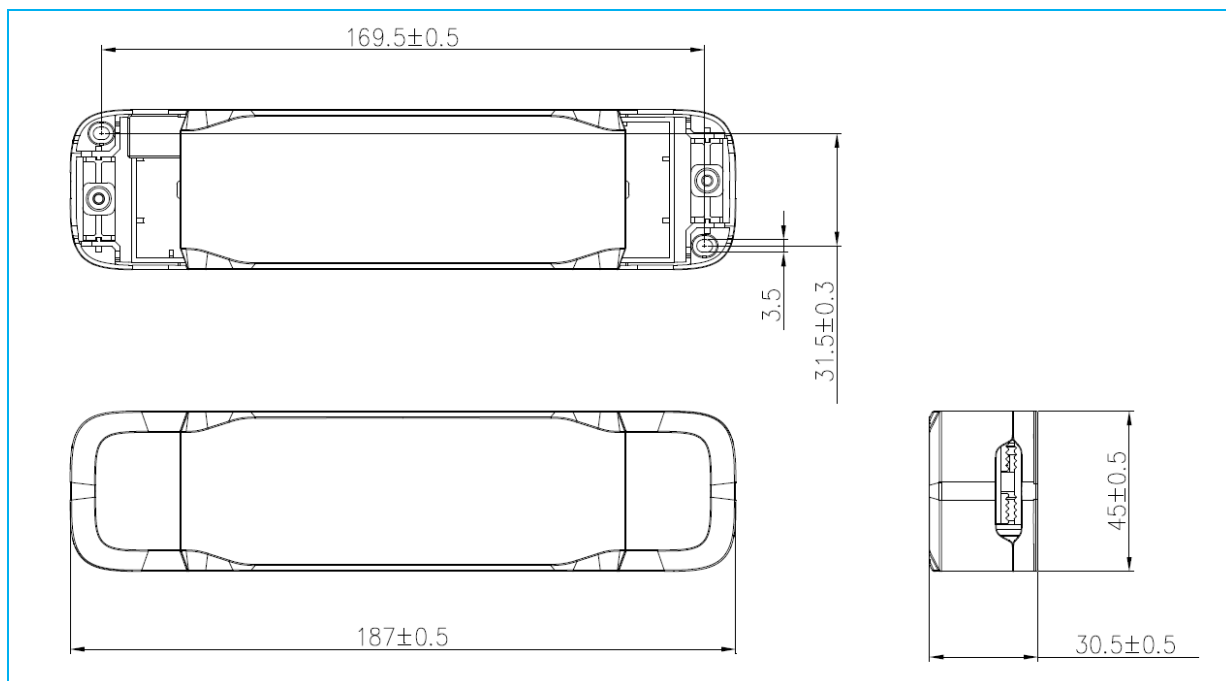
■Model list

No.	Model number	Input			Output		
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant voltage (VDC)	Normal working current (A)	P _{rated} (W)
1	LS-60-12 LI1	220-240	0.47	50/60	12	0-5	60
2	LS-60-24 LI1	220-240	0.47	50/60	24	0-2.5	60

■Wiring diagram



■2D diagram

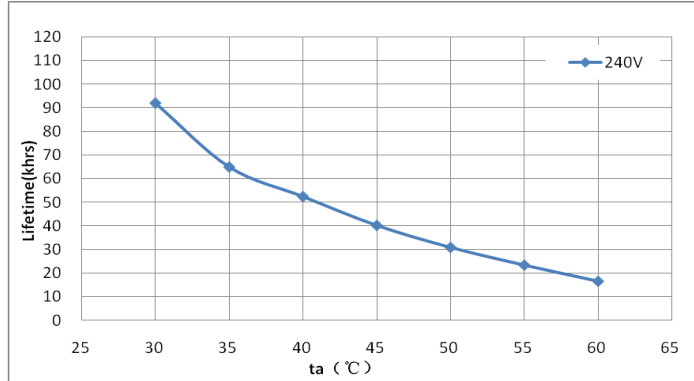


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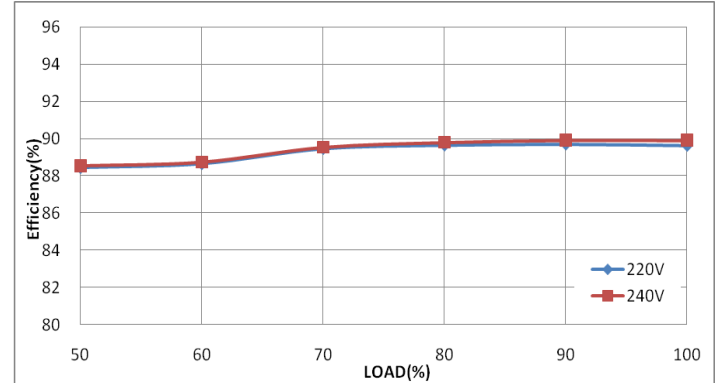
LS-60-XX LI1

■Curve for LS-60-12 LI1

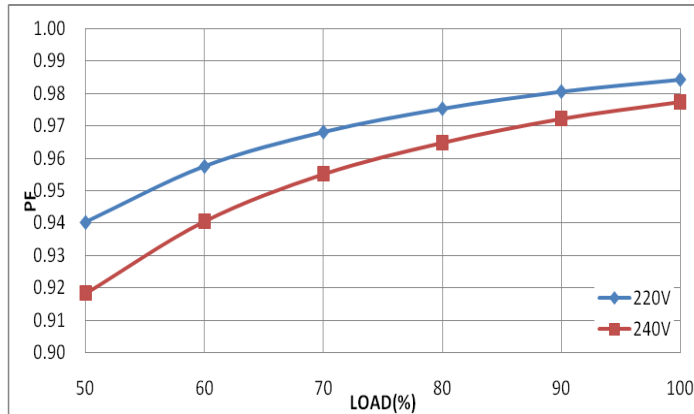
Lifetime vs. Ambient Temperature Curve



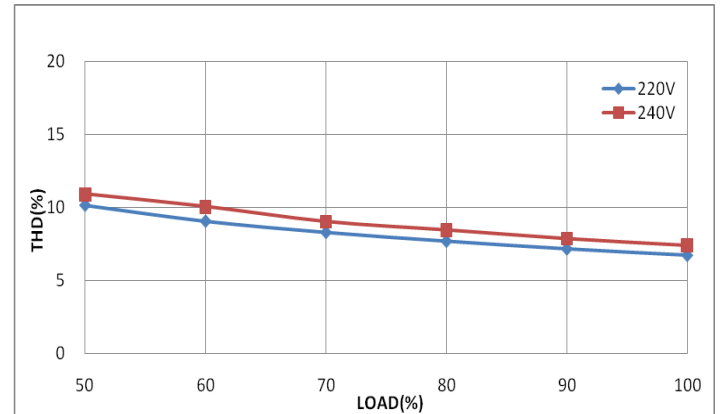
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



■Operating window

