

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 ≥88%
- 5 years warranty

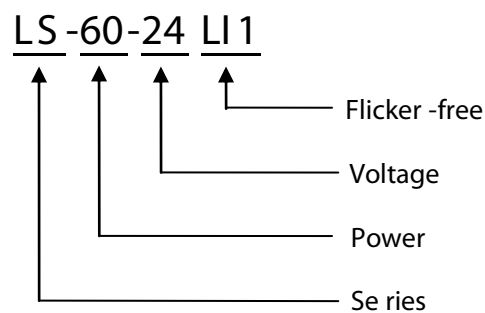
Applications

- 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 its 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



60W Constant Voltage-LS Series

LS-60-XX LI1

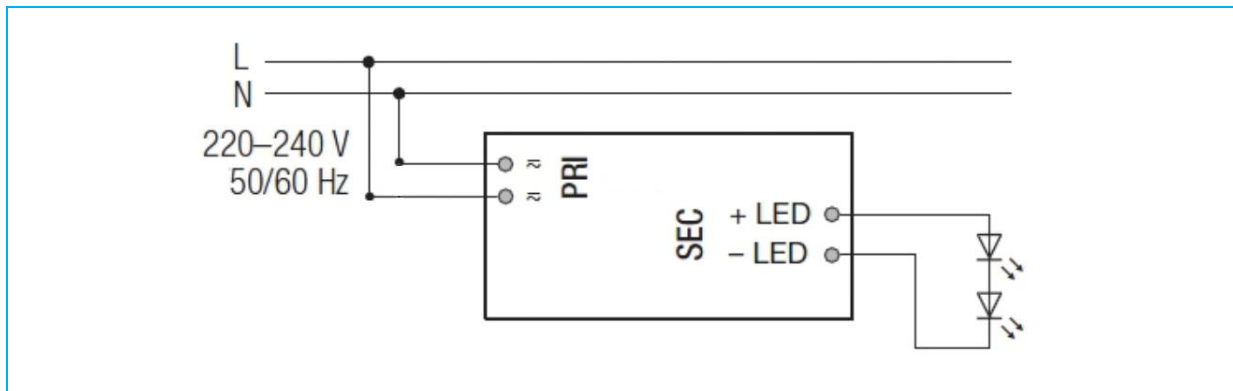
Specification

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	>12.6 VDC	>25.2 VDC Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume	
	Over Temperature protection	Protection type: Auto Resume	
Environment	Operating Temperature	-10 ...+ 45	
	tc	85	
	Storage Temperature	-20 ...+60	
	Life time	>30,000h@45	
	Temperature coefficient	±0.03%/ (0-45)	
	Humidity	20%-90%RH	
Others	Dimension	187X45X30.5(LX WXH)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	<p>1. All parameters NOT specially mentioned are measured at 240VAC input , full load and 25 of ambient temperature.</p> <p>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.</p>		

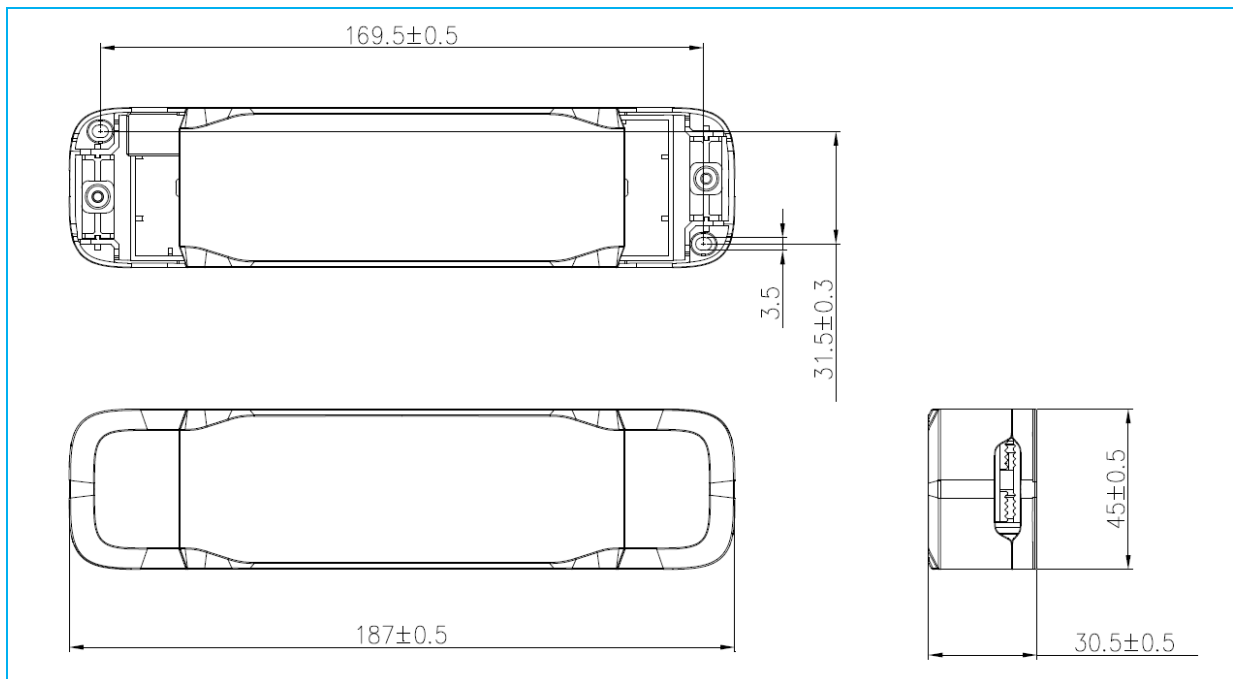
☒ Model list

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

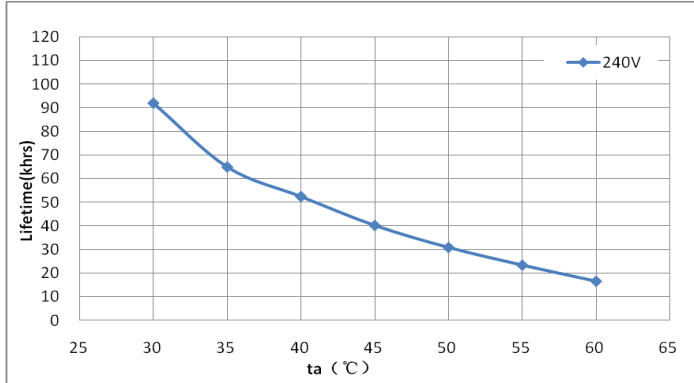


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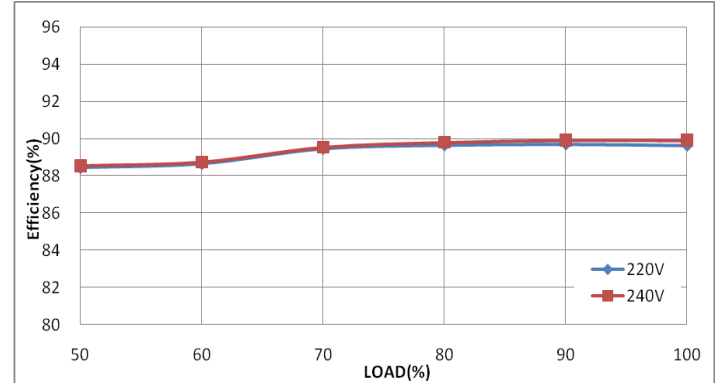
LS-60-XX LI1

☒ Curve for LS-60-12 LI1

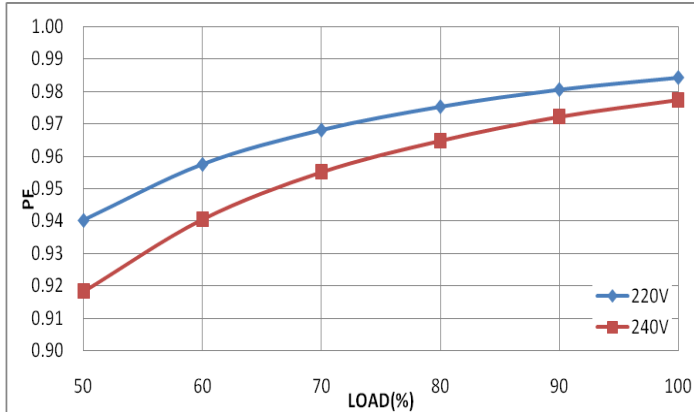
Lifetime vs. Ambient Temperature Curve



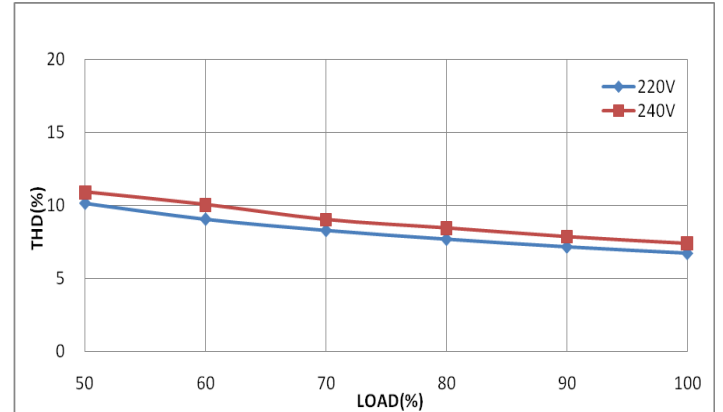
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



☒ Operating window

