

60W constant Voltage-LS Series



■ Approve



Features

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

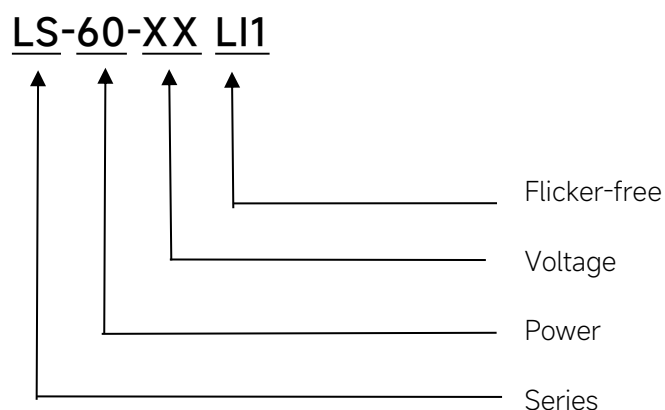
Applications

- LED strips

◆ 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 products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



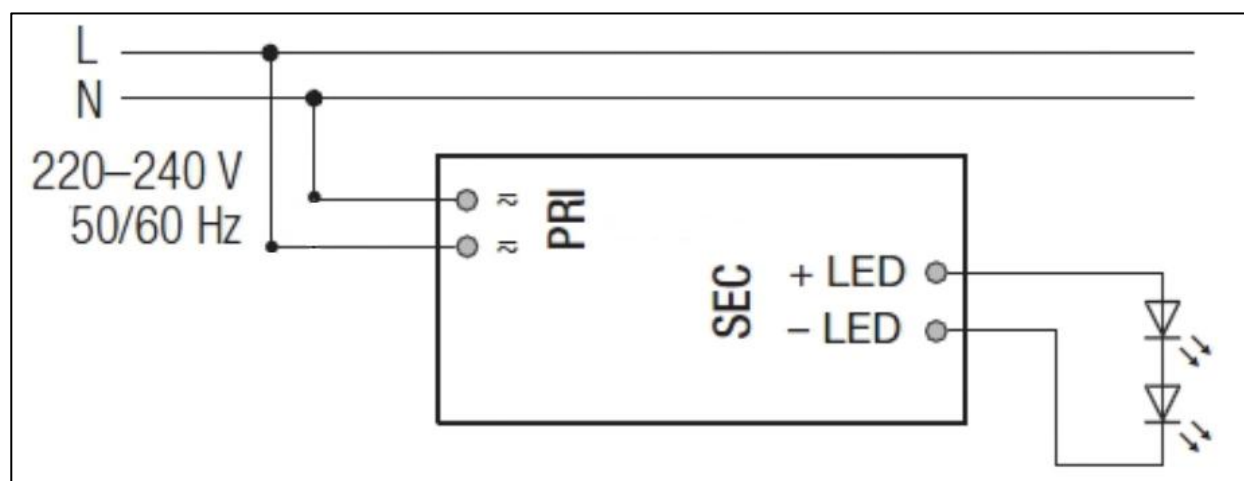
◆ Specification

Output	Constant Voltage	12VDC		24VDC
	Current Range	0-5A		0-2..5A
	Voltage Accuracy	±5%		
	Output HF current ripple(≥1KHz)	±1%		
	Output LF current ripple(≤120Hz)	±1%		
	SVM	≤0.4		
	Pst	≤1		
	Efficiency(Typ.)	88%		
Input	Rated input voltage	220-240VAC		
	Range of input voltage	176-264VAC		
	Frequency(Hz)	0/50/60 Hz		
	Power Factor	> 0.9		
	Input Current max	0.47A		
	Start-up time	< 0.5S		
	No Load Power	≤0.5W		
	THD (Typ.)	< 10%		
Protection	Over Load Protection	105-150%		
		YES/Auto Resume		
	Over Voltage Protection	> 12.6VDC	> 25.2VDC	
		YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
Over Temperature Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~~+45°C		
	Humidity	20%-90%RH		
	Tc	85°C		
	Storage Temperature	-20°C~~+60°C		
	Life time	> 50000h@Tc=70°C		
Surface	Dimension	187X45X30.5(LXWXH)mm		
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;			
Others	ErP	EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		
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.			

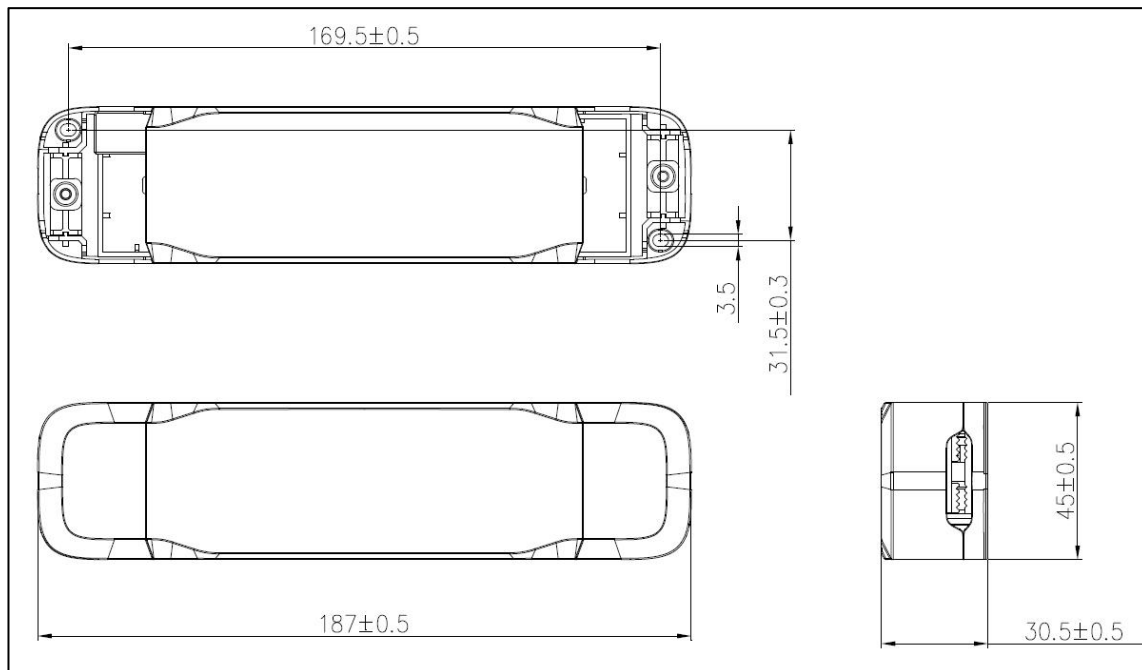
◆ Circuit Breaker

I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
45A	266.8 μ s	6pcs	10pcs	13pcs	11pcs	17pcs	22pcs

◆ Wiring diagram



◆ 2D diagram

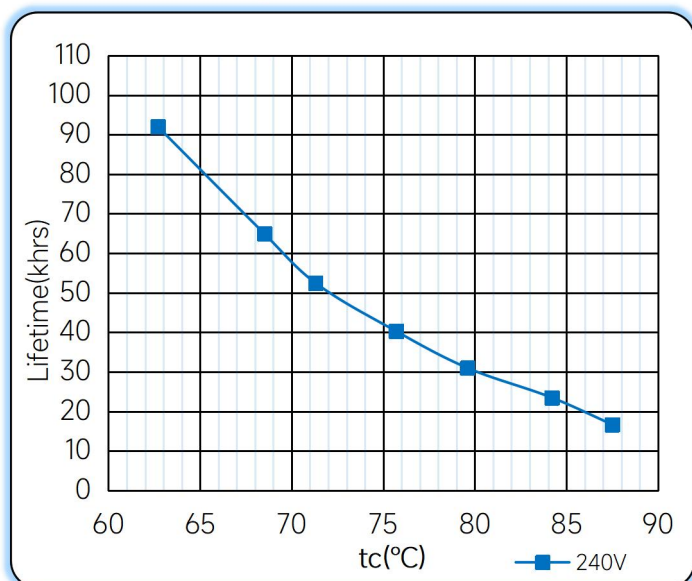


◆ Wiring & Connections

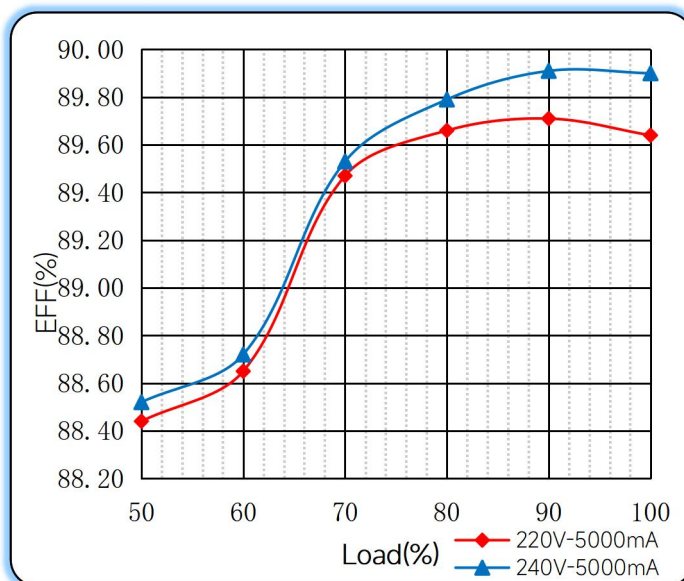
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-60-12 LI1

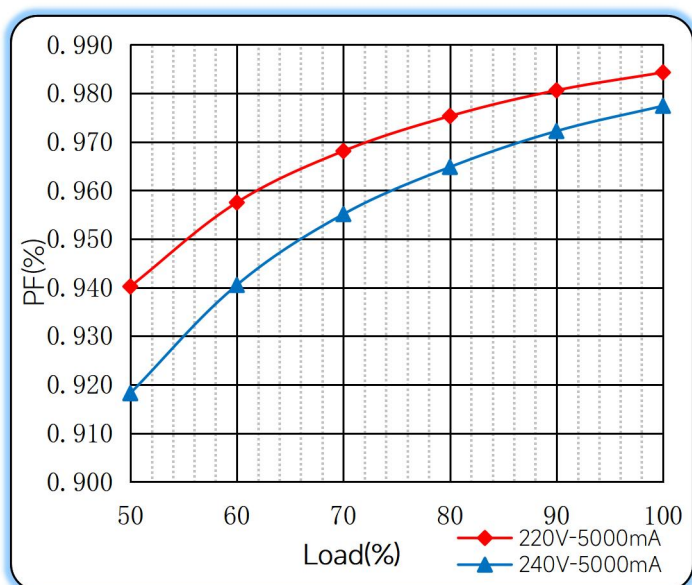
Lifetime vs. Temperature Curve



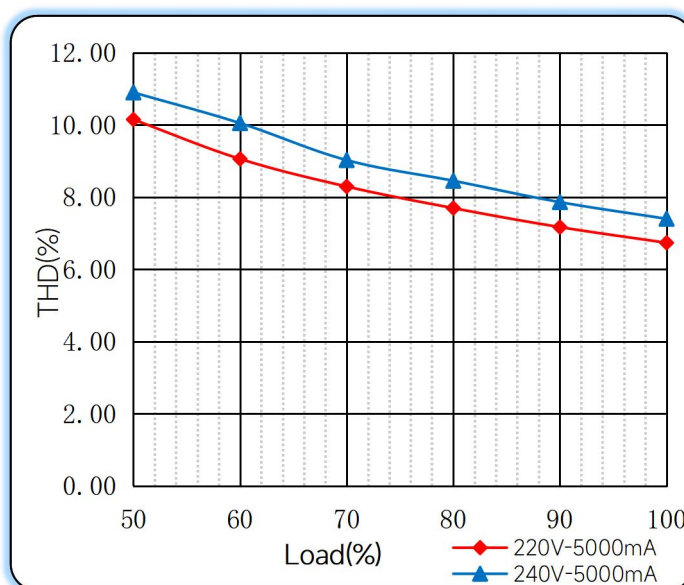
Efficiency vs. Load



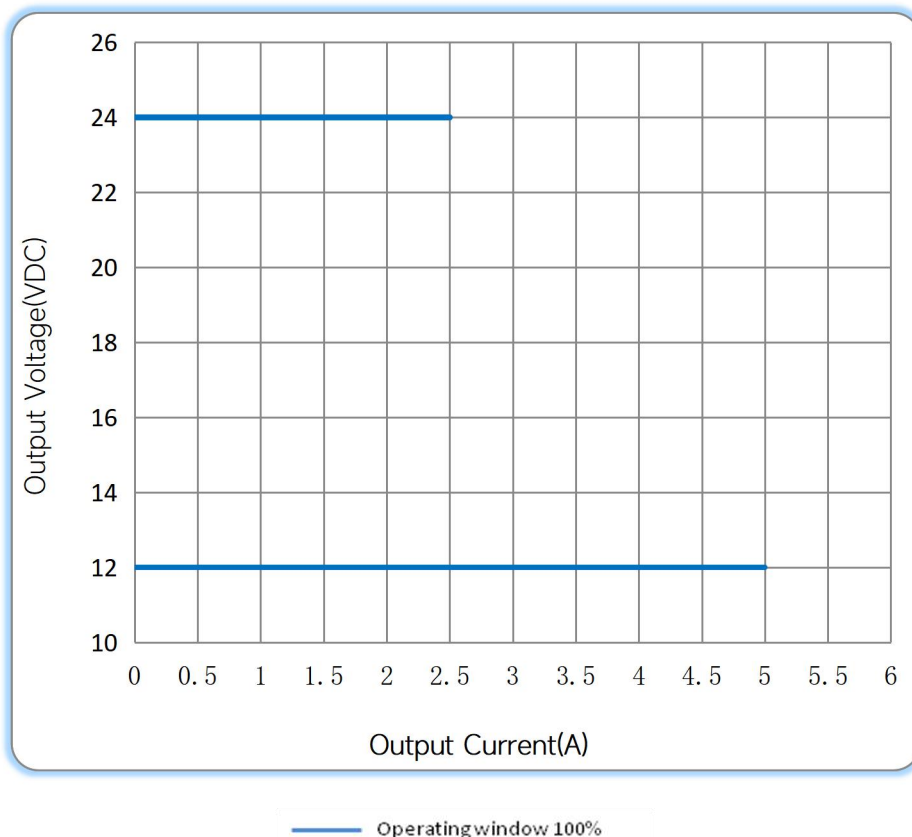
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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Manual