

60W Constant Voltage Slim-US Series

US-60-XX LI



SELV

■Approve



■Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor >0.9
- Efficiency $\geq 87\%$
- 5 years warranty

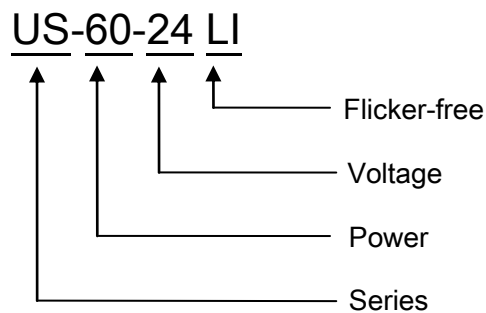
■Applications

- LED strips
- kitchen light
- bathroom light

■Description

US-60-XX LI is a 60W constant voltage LED driver that operates from 176-264Vac input with 12V or 24V output voltage. With it's slim dimensions from 305 x 30x 17mm it is easy to integrate in LED strips, kitchen light and bathroom light products. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

■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	
	Input Current max	0.46A MAX. @Full Load,176VAC	
	Start-up time	< 0.5S	
	Unload Power Consumption	≤0.5W	
	Inrush Current	20A Max.	
	THD	< 12%	
	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	±2% @Full Load	
	Load Regulation	≤4%	
	Hold-up Time	1s max.@Full Load	
	Ripple& Noise *Note.2	≤240mV@Full Load,240VAC	≤480mV@Full Load,240VAC
	Efficiency(Typ.)	≥87%	
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 after restart		
Environment	Operating Temperature	-10°C...+45°C	
	tc	90°C	
	Storage Temperature	-20°C...+60°C	
	Life time	> 50,000h@45°C	
	Temperature coefficient	±0.03%/°C(0-45°C)	
	Humidity	10%-90%RH	
Others	Dimension	305X30X17(LXWXH)mm	
	Weight	0.15kg/PC	
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.		

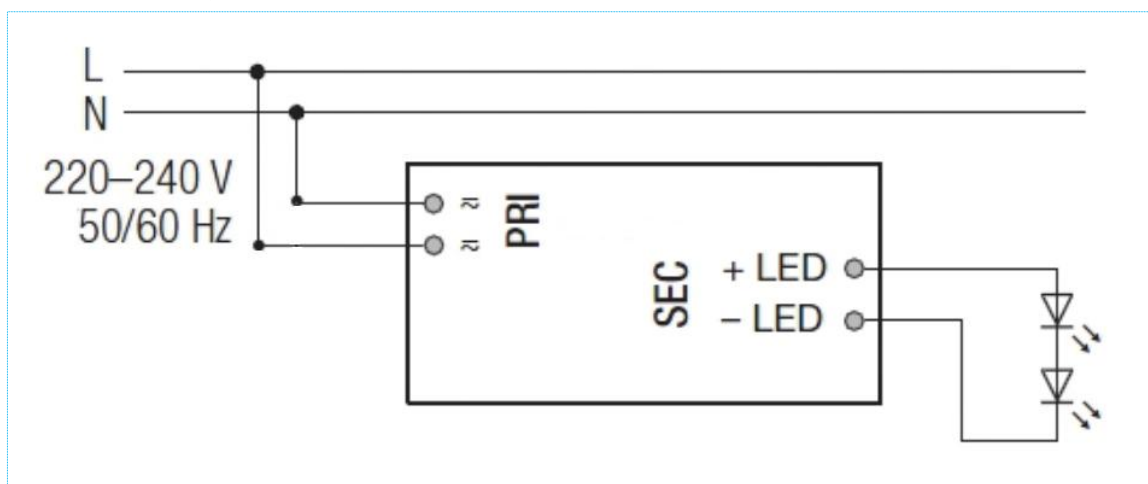
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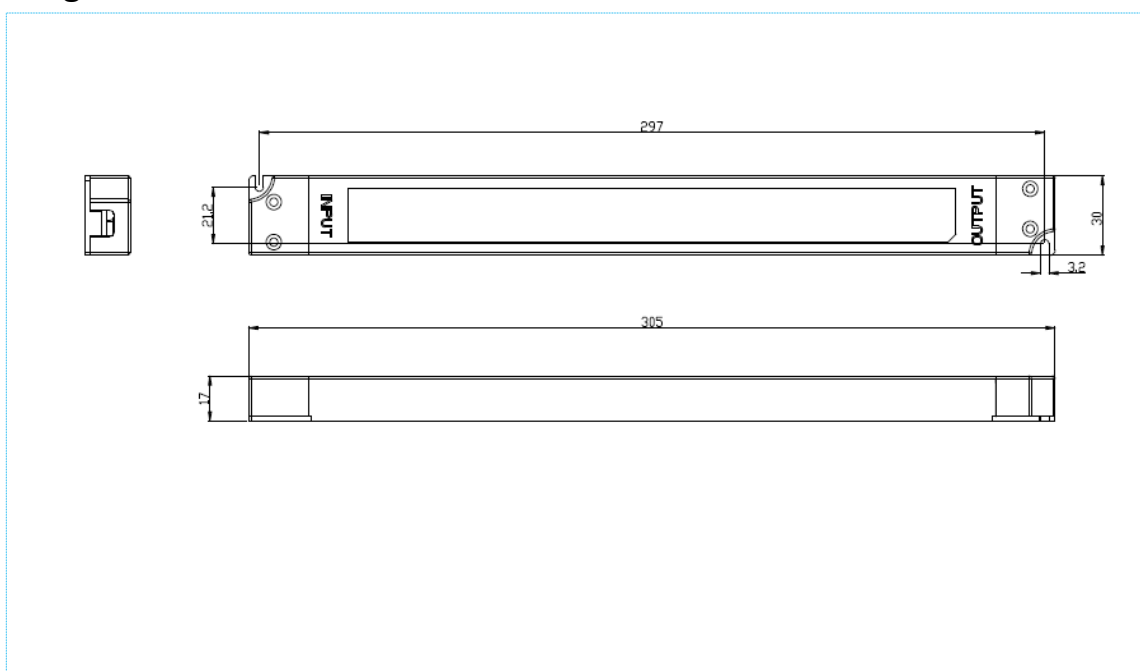
■ Ordering data

Type	Pcs/Ctn	G.W.(KG/Gtn)	N.W.(KG/Gtn)	Dimension /Ctn (mm)
US-60-XX LI	65	11.13	9.75	410x320x180

■ Connection diagram



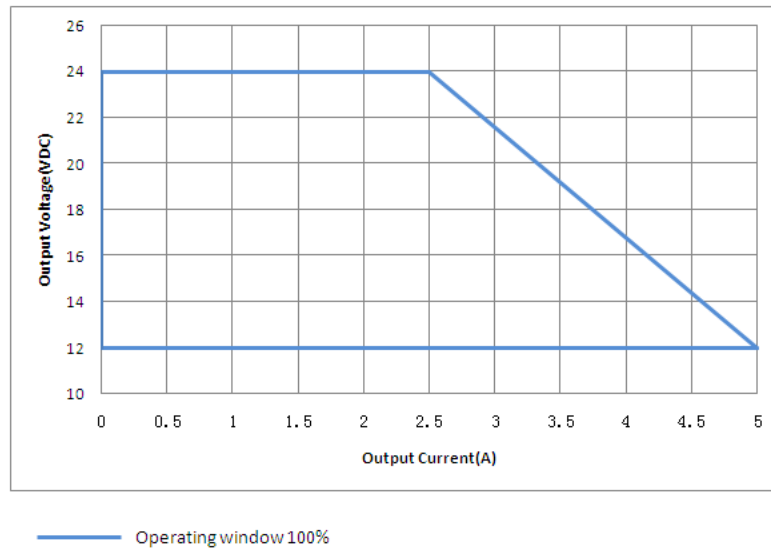
■ 2D diagram



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■ Operating window



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■Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			1.0.0	2018-9-10