

30W Constant Voltage Slim-US Series



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor > 0.95
- Efficiency ≥83%
- 2 slots
- 5 years warranty

Applications

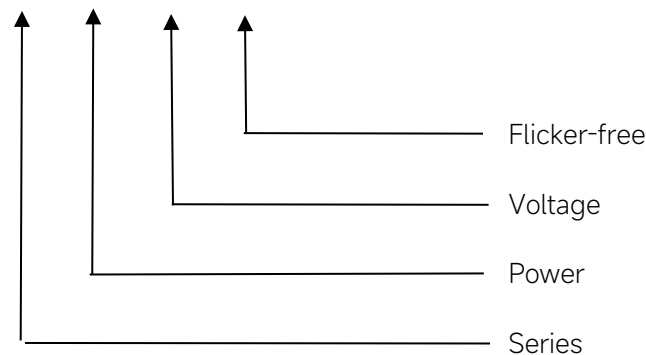
- LED strips

◆ Description

US-30-XX LI1 is a 30W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's slim dimensions from 261 x 30x 17mm. it is easy to integrate in LED strips product. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

◆ Model code

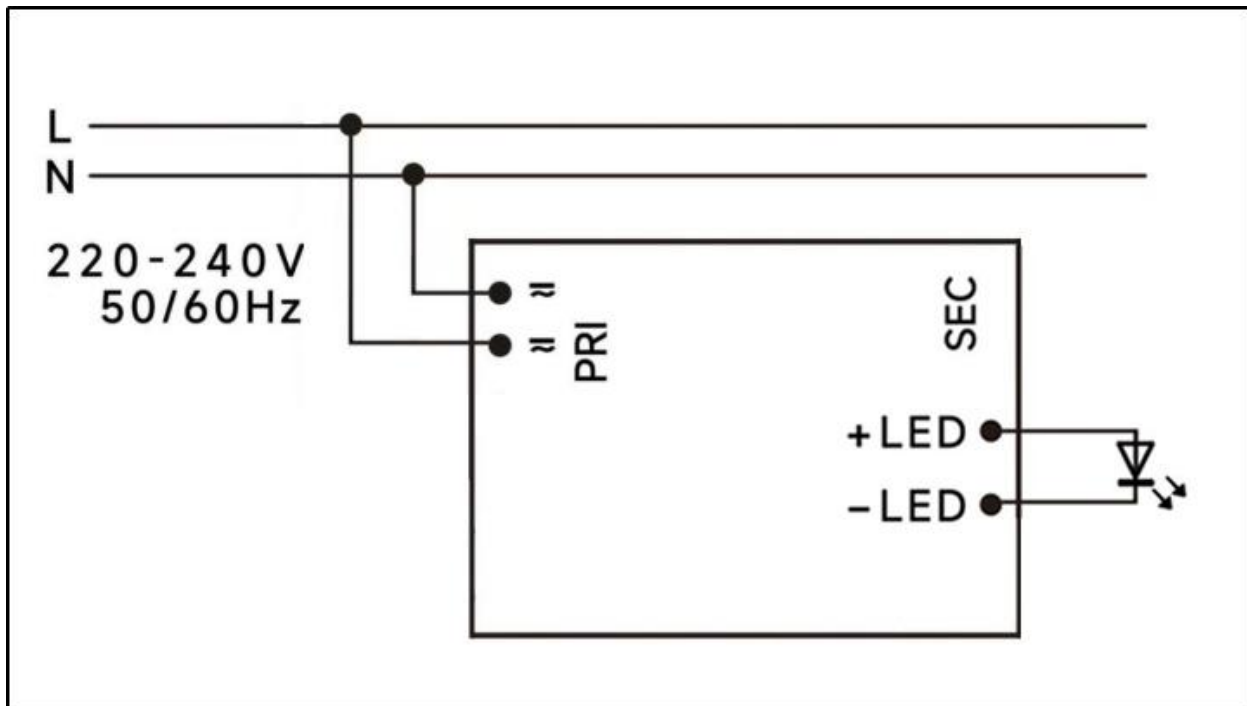
US-30-XX LI1



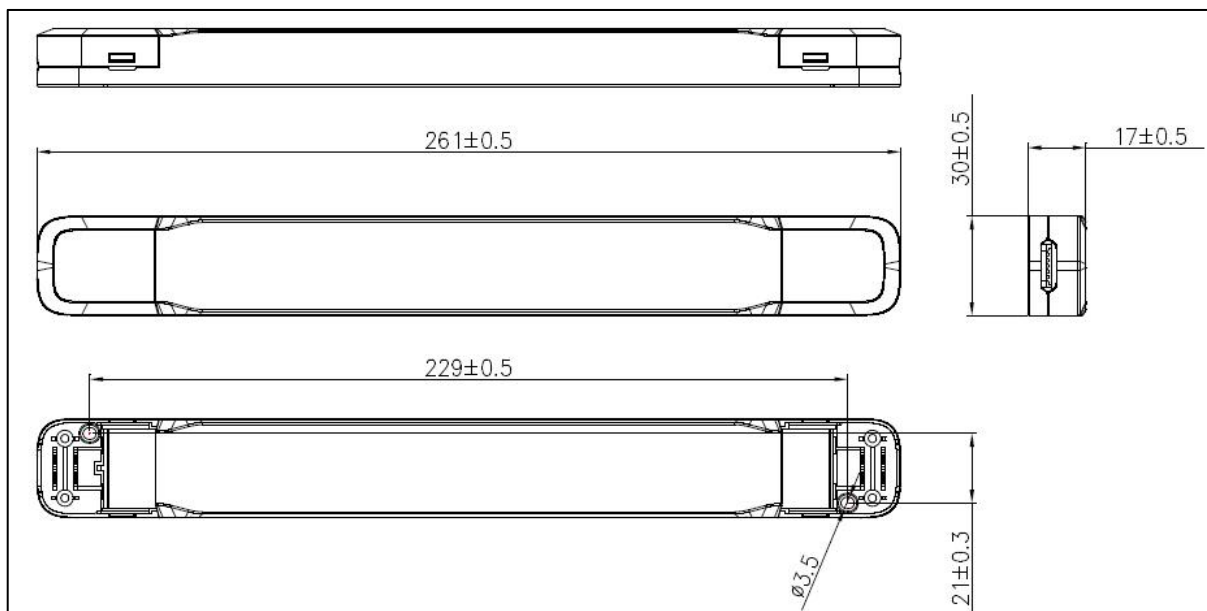
◆ Specification

Output	Constant Voltage	12VDC		24VDC	
	Current Range	0-2.5A		0-1.25A	
	Voltage Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±1%			
	Output LF current ripple(≤120Hz)	±1%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥83%		≥85%	
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Rated input voltage(DC)	176-250VDC			
	Frequency(Hz)	0/50/60 Hz			
	Power Factor	≥0.95@Full load,230V			
	Input Current max	0.24A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	< 12% @Full load, 240VAC		< 8%@Full load, 220VAC	
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℃~+45℃			
	Humidity	20%-90%RH			
	Tc	90℃			
	Storage Temperature	-40℃~+60℃			
	Life time	> 50000h@Tc=85℃,230VAC			
Surface	Dimension	261X30X17(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 230VAC input , full load and 25℃ 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.Dimmers are not recommended for this product.				

◆ Wiring diagram

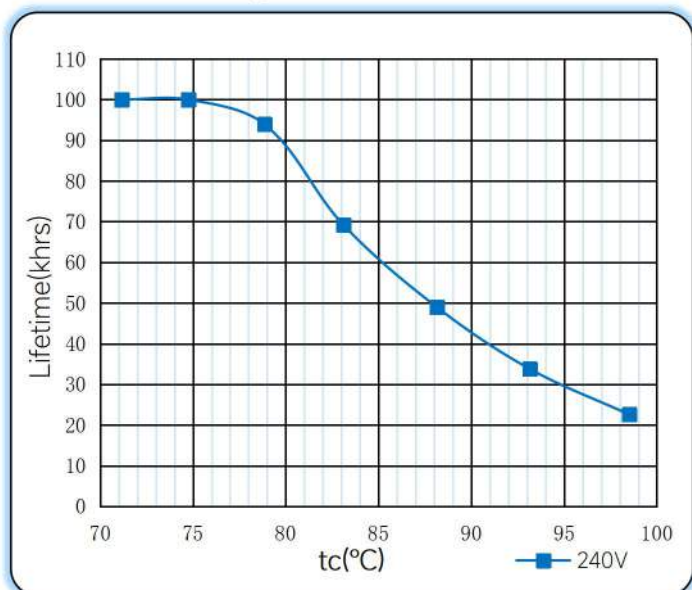


◆ 2D diagram

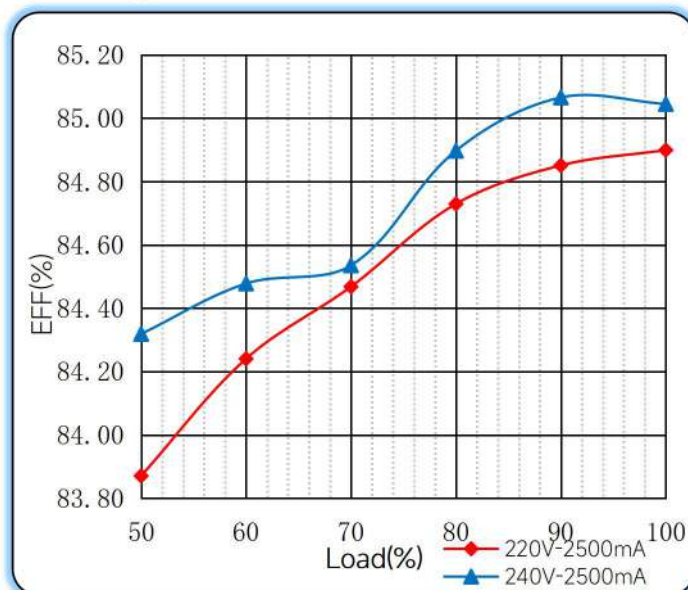


◆ Curve for US-30-12 LI1

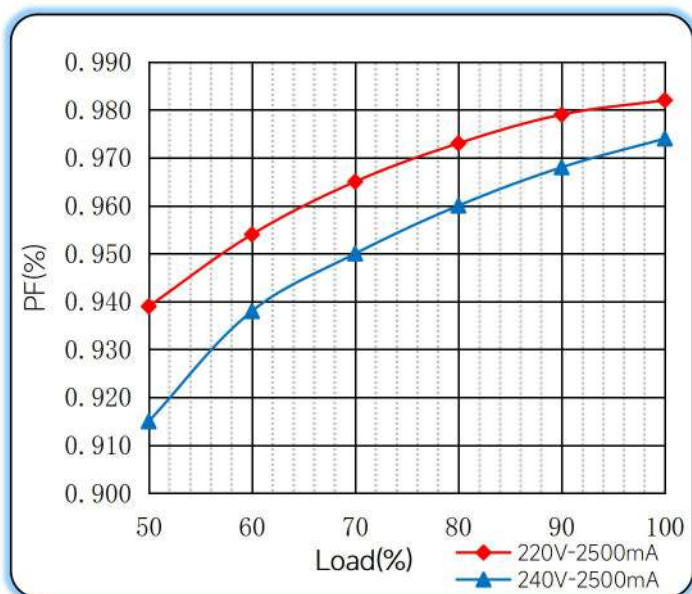
Lifetime vs. Temperature Curve



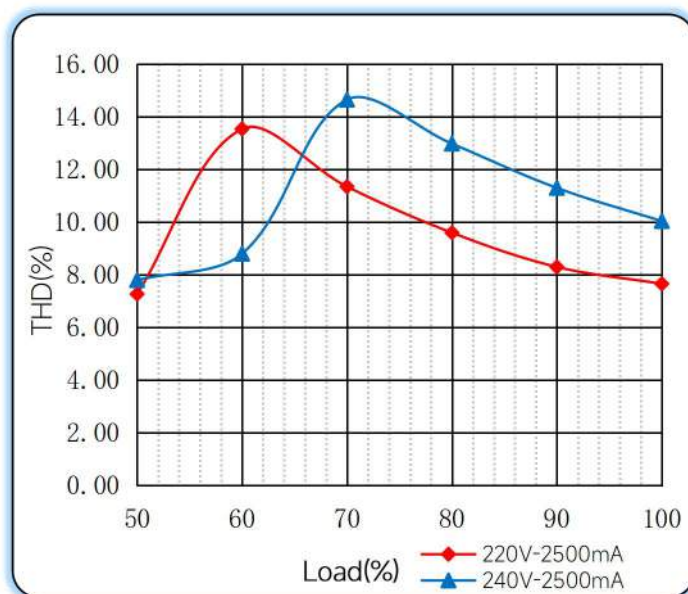
Efficiency vs. Load



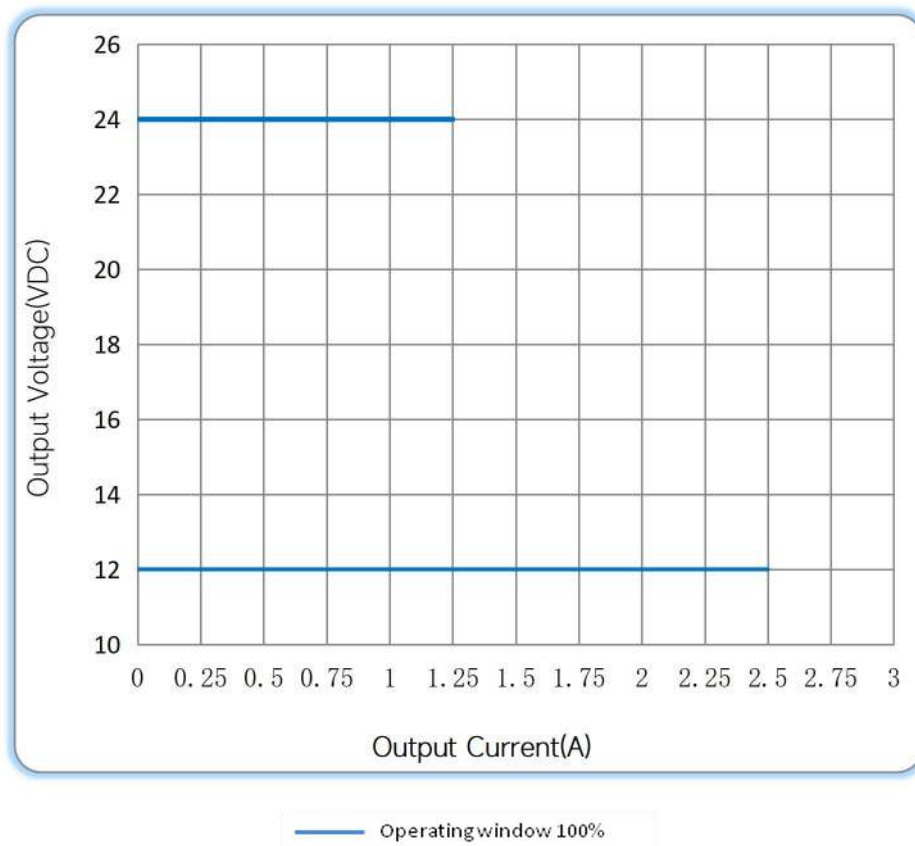
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

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

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Manual