

160W Constant Voltage Slim-US Series



■ Approve



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor > 0.95
- Efficiency ≥92%
- 5 years warranty

Applications

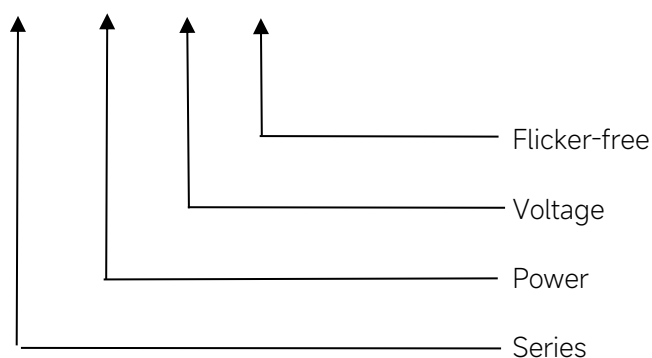
- LED strips

◆ Description

US-160-XX LI2 is a 160W constant voltage LED driver that operates from 198-264Vac input with 24V or 48V output voltage. With it's compact dimensions from 395 x 30.5 x 21.5mm. It is easy to integrate in LED strips product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

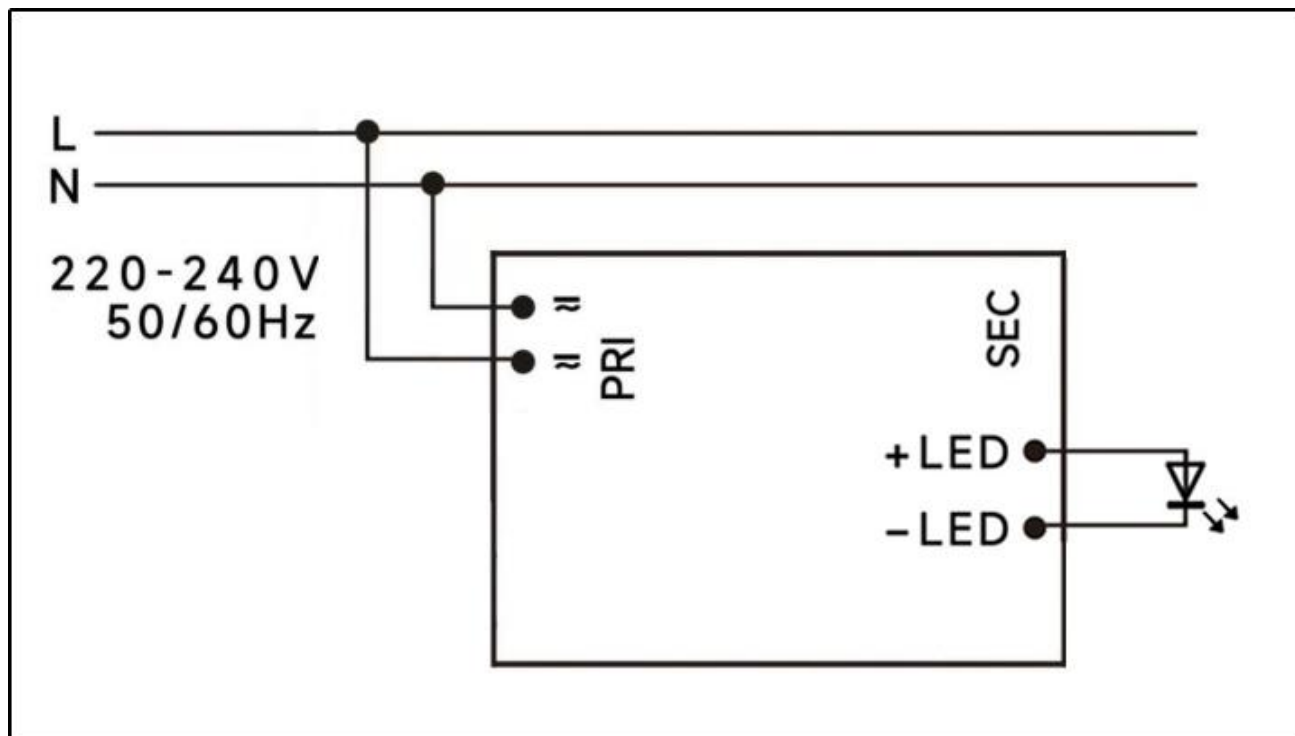
US-160-XX LI2



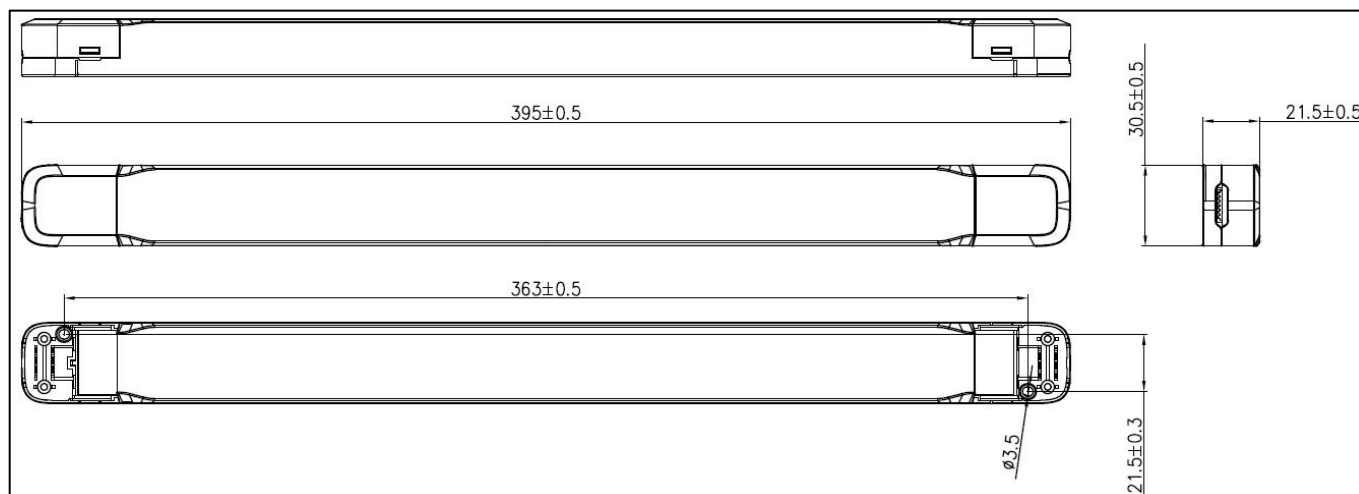
◆ Specification

Output	Constant Voltage	24VDC		48VDC	
	Current Range	0-6.67A		0-3.33A	
	Voltage Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±1%			
	Output LF current ripple(≤120Hz)	±1%			
	SVM	≤0.4@Full Load			
	Pst	≤1@Full Load			
	Efficiency(Typ.)	≥92%@Full load,230V			
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	1A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	< 8%@Full load,230V			
Protection	Over Load Protection	105-150%			
		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	80°C		90°C	
	Storage Temperature	-20°C~~+60°C			
	Life time	> 50000h@Tc=80°C,230VAC			
Surface	Dimension	395X30.5X21.5(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 230VAC 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. 3.Data are typical values obtained from test samples. 4.Dimmers are not recommended for this product.				

◆ Wiring diagram

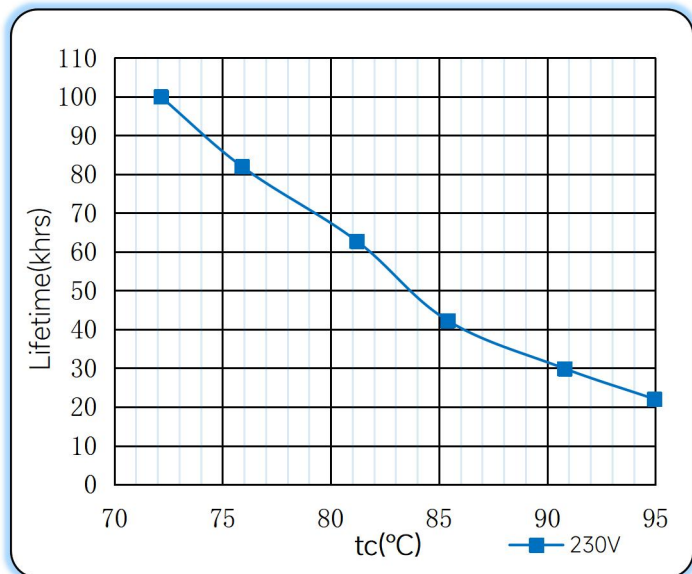


◆ 2D diagram

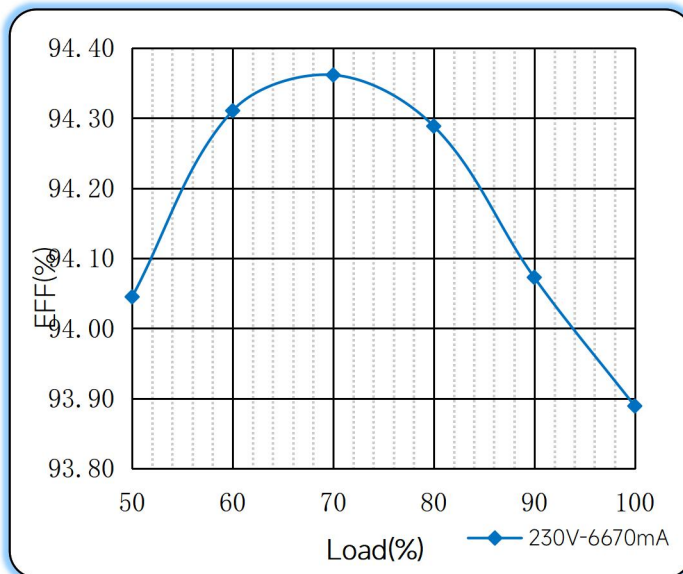


◆ Curve for US-160-12 LI2

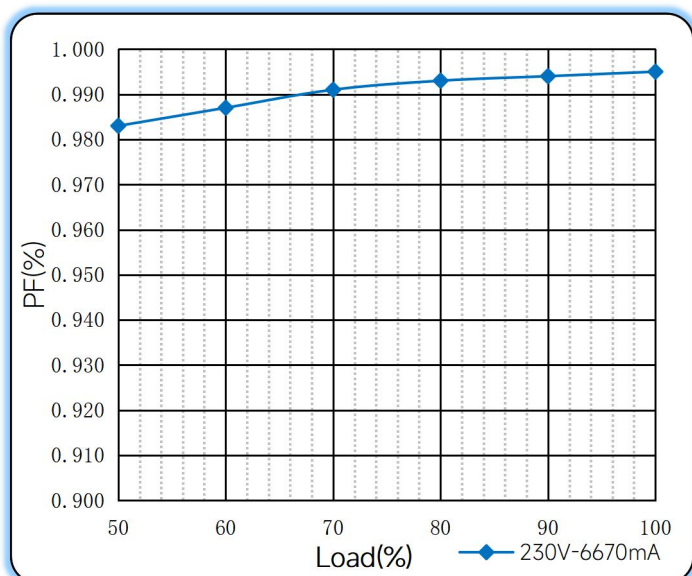
Lifetime vs. Temperature Curve



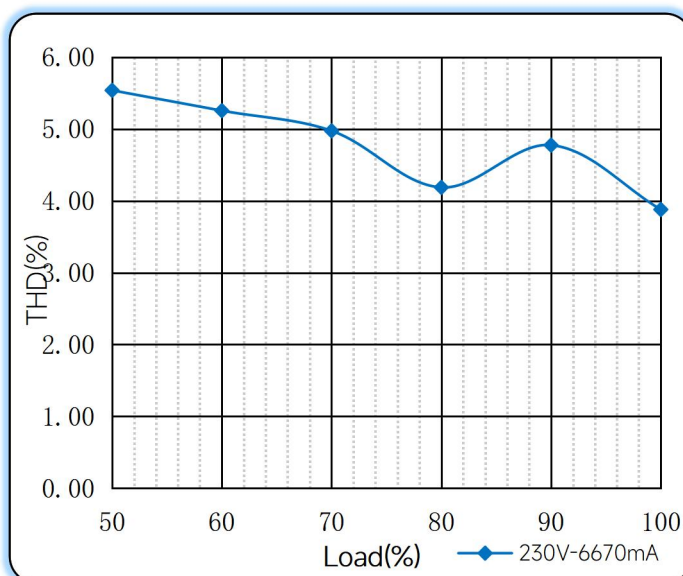
Efficiency vs. Load



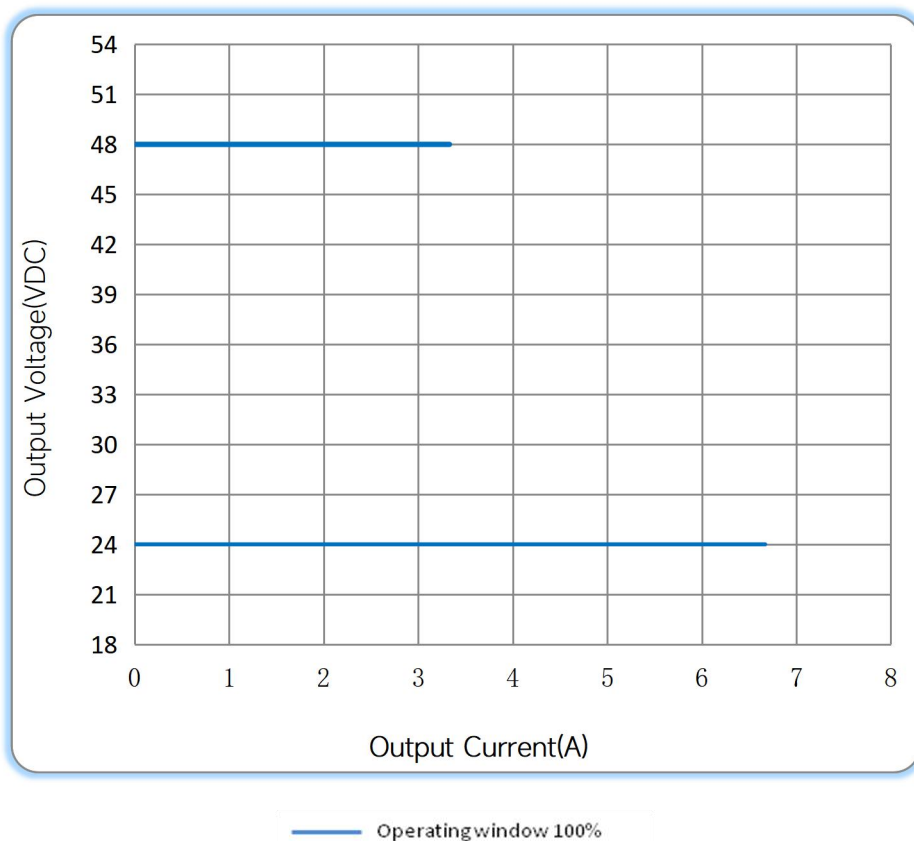
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Name	US-160-XX LI1	US-160-XX LI2	B	2023/06/28

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



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Manual