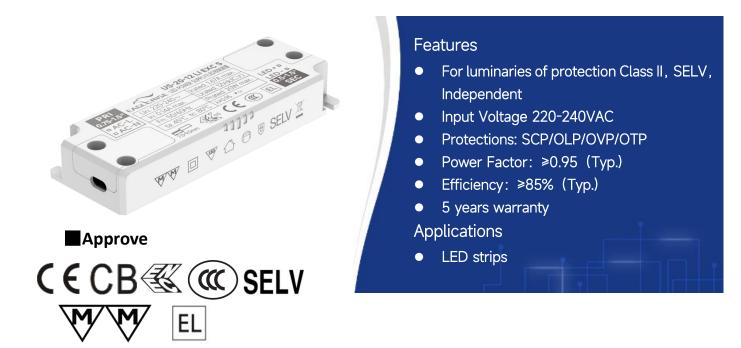


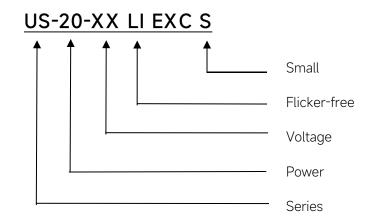
20W constant Voltage-US Series



◆ Description

US-20-XX LI EXC S is a 20W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's compact dimensions from 102.5X35.5X16.5mm. 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



Stock code: 002922



♦ Specification

Output	Constant Voltage	12VDC	24VDC	
	Current Range	0-1.67A	0-0.83A	
	Voltage Accuracy	±5%		
	Output HF voltage ripple(≥1KHz)	±5%		
	Output LF voltage ripple(≤120Hz)	±5%		
	SVM	≤0.4@Full load,230V		
	Pst	≤1@Full load,230V		
	Efficiency(Typ.)	>85%@Full load,230V		
	EOFI	15%		
	Rated input voltage	220-240VAC		
	Range of input voltage	198-264VAC		
	Maximum voltage	300VAC@1 h maximum,unit	might not operate in this abnormal condition	
	Range of input voltage(VDC)	176-280VDC		
	Frequency(Hz)	0/50/60 Hz		
Input	Displacement factor	>0.9@Full load,230V		
	Power Factor	>0.95@Full load,230V		
	Input Current max	0.14A		
	Start-up time	< 0.5S		
	No Load Power	<0.5W		
	THD (Typ.)	<15%@Full load,230V		
	Over Load Protection	105-150%		
	Over Loud Frotection	YES/Auto Resume		
Protection	Over Current Protection	2.5A	1.25A	
	Over current rotection	YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
capability	Surge capability (L-N)	1KV		
capability	Surge capability (L/N-Ground)	NA		
	Operating Temperature	-20°C~+45°C		
	Humidity	20%-90%RH		
Environment	Tc	80℃		
Livilori	Storage Temperature	-20°C~+80°C		
	Life time	> 50000h@Tc=75°C		
	Noise	<20dB(A)@10cm		
Surface	Dimension	102.5X35.5X16.5(LXWXH)mm		
Suriace	material	PC		
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;		

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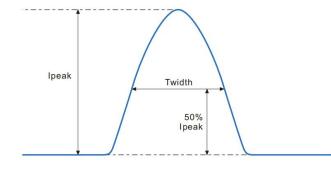




EMC		GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547			
	Energy Efficiency	Erp2.0 EU 2019/2020			
	RoHS	RoHS (2011/65/EU) (EU)2015/863			
Note	 2.Ripple & Noise are measured at 20N parallel capacitor. 3.The DC input for this product is only not considered. 4.Switch and dimmer are not recom 5.The over-temperature protection of th 6.DC input does not guarantee EMI perf 7.All Eaglerise power supply are complie 				

♦ Inrush Current

I _{peak}	Twidth	B10	B16	B20	C10	C16	C20
11.1A	138μs	54pcs	87pcs	109pcs	57pcs	91pcs	114pcs



Remarks:

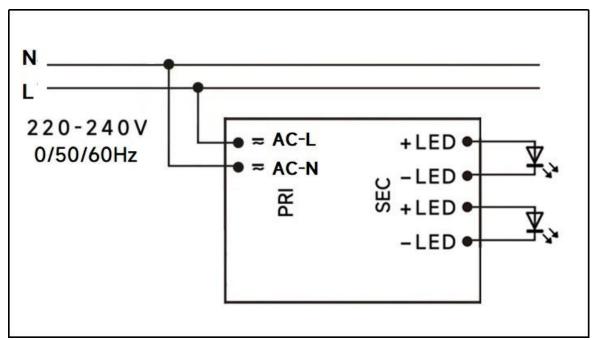
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

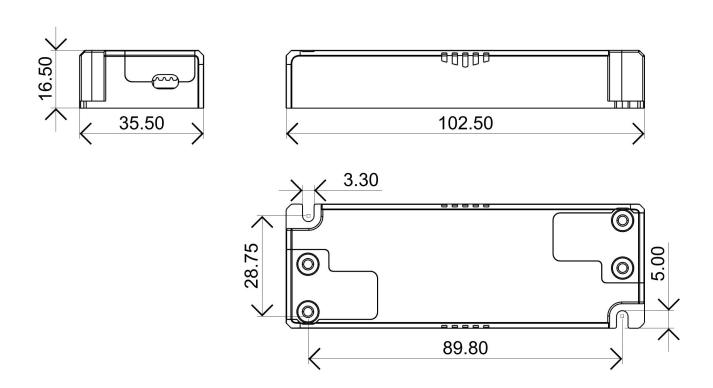
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♦ Wiring diagram



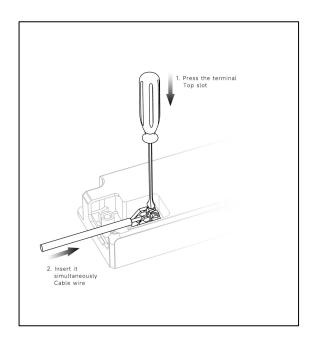
♦ 2D diagram



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Terminal



♦ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm ²
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

◆ Packaging

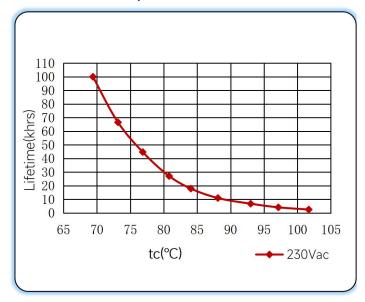
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
US-20-XX LI EXC S	102.5x35.5x16.5	0.065	405x315x170	297	19.3	20

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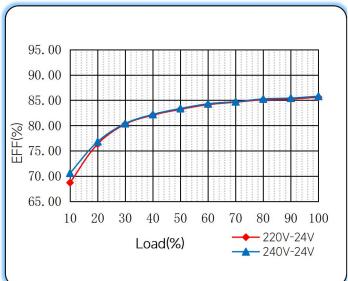


◆ Curve for US-20-24 LI EXC S

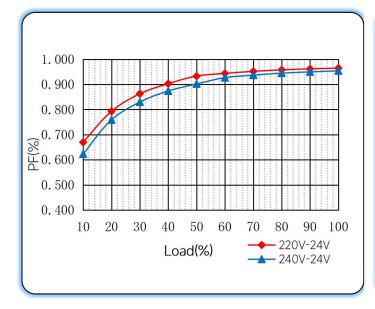
Lifetime vs. Temperature Curve



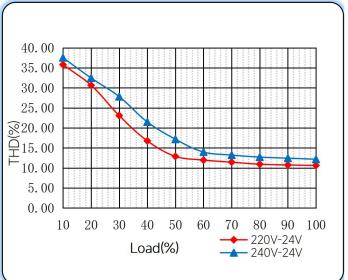
Efficiency vs. Load



Power Factor Characteristics



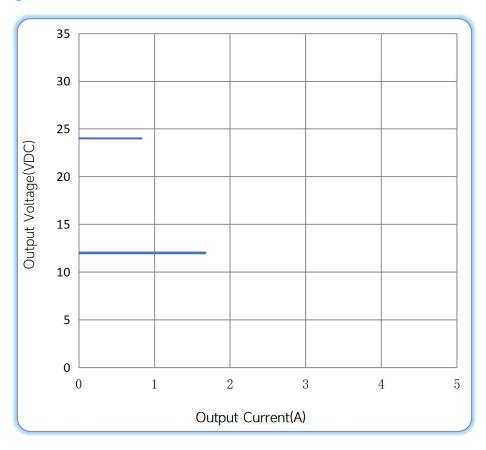
THD vs. Load



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♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2025/03/11

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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Manual

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