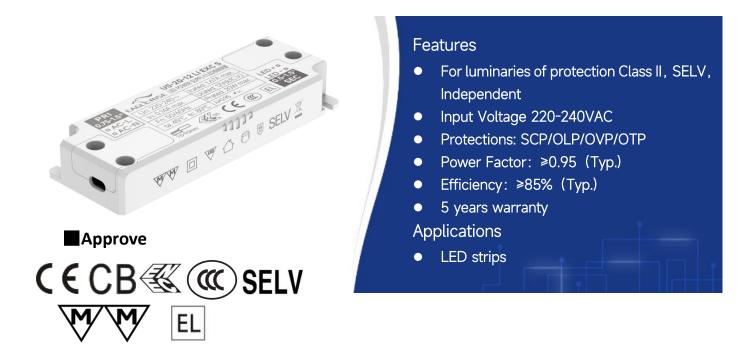


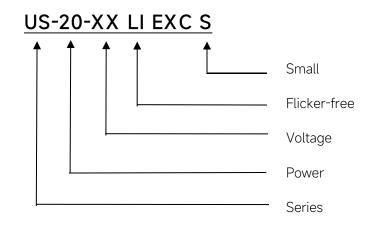
# 20W constant Voltage-US Series



### **♦** 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	100%			
	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Maximum voltage	300VAC@1 h maximum,unit ı	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 Load Frotection	YES/Auto Resume			
Protection	Over Current Protection	2.5A	1.25A		
	Over Current Flotection	YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
capability	Surge capability (L-N)	1KV			
Саравінту	Surge capability (L/N-Ground)	NA			
	Operating Temperature	-20°C~+45°C			
	Humidity	20%-90%RH			
Environment	Тс	80°C			
LIMITOTINICITE	Storage Temperature	-20°C~+80°C			
	Life time	>50000h@Tc=75°C			
	Noise	<20dB(A)@10cm			
Surface	Dimension	102.5X35.5X16.5(LXWXH)mm			
Juliace	material	PC			
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;			

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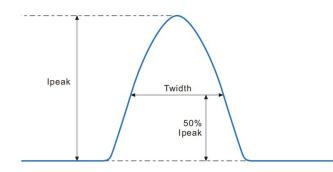




	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<ul> <li>2.Ripple &amp; Noise are measured at 20N parallel capacitor.</li> <li>3.The DC input for this product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

#### **♦ Inrush Current**

$\mathbf{I}_{peak}$	Twidth	B10	B16	B20	C10	C16	C20
11.1A	<b>138</b> µs	54pcs	87pcs	109pcs	57pcs	91pcs	114pcs



#### Remarks:

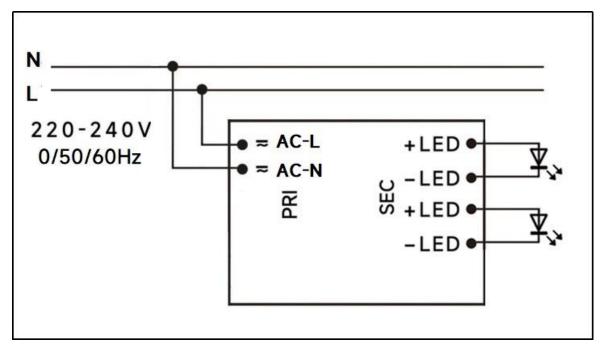
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

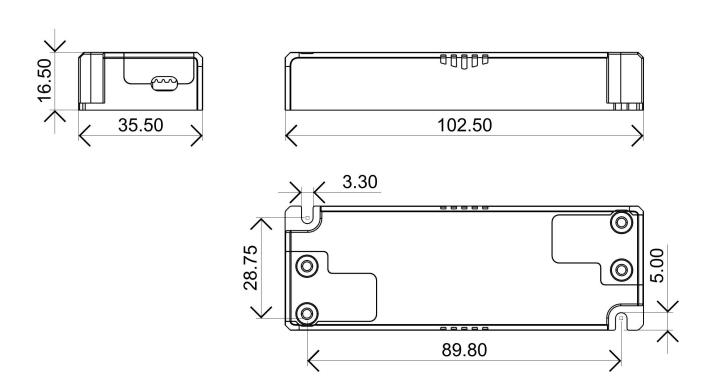
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## **♦ Wiring diagram**



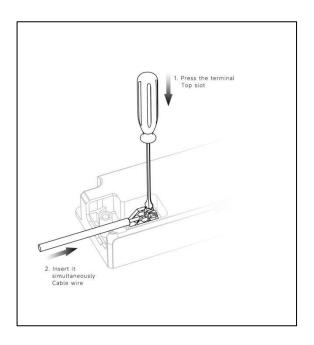
### **♦ 2D diagram**



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#### **Terminal**



### **♦ Wiring & Connections**

Specification item		Value (Unit )
	Input wire cross-section	0.51.5 mm²
Input	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm <sup>2</sup>
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

## **◆ Packaging**

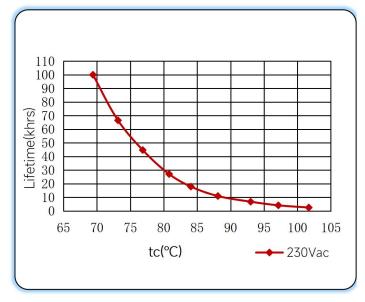
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
US-20-XX LI EXC S	102.5x35.5x16.5	0.065	405x315x170	297	19.3	20

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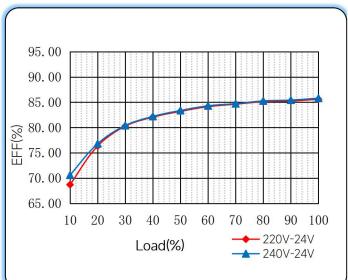


#### ◆ Curve for US-20-24 LI EXC S

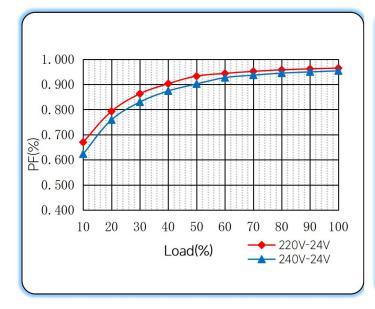
#### Lifetime vs. Temperature Curve



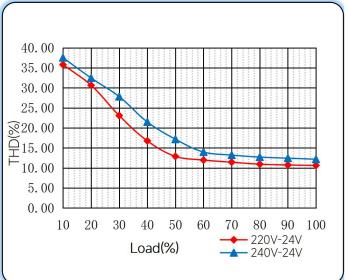
#### Efficiency vs. Load



#### **Power Factor Characteristics**



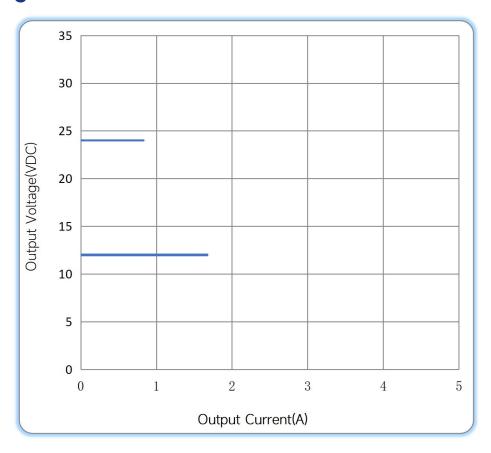
THD vs. Load



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### **♦ Operating window**



Operating window 100%

### **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2025/03/11
EOFI	15%	100%	В	2025/12/10

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

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