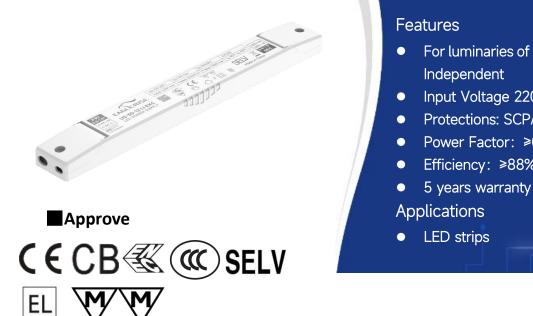


30W constant Voltage-US Series

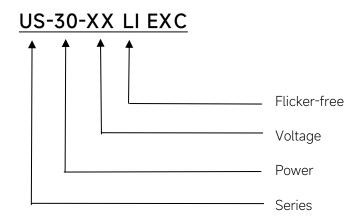


- For luminaries of protection Class II, SELV,
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: ≥0.95 (Typ.)
- Efficiency: ≥88% (Typ.)

Description

US-30-XX LI EXC is a 30W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's compact dimensions from 238X30X16mm. 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



1/7 Stock code: 002922



♦ Specification

	Constant Voltage	12VDC	24VDC	
Output	Current Range	0-2.5A	0-1.25A	
	Voltage Accuracy	±5%		
	Output HF current ripple(>1KHz)	±5%		
	Output LF current ripple(≤120Hz)	±5%		
	SVM	≤0.4		
	Pst	ৰ		
	Efficiency(Typ.)	≥88%@Full load,230V		
	Rated input voltage	220-240V		
	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		
	Power Factor	≥0.95@Full load,230V		
	Input Current max	0.18A	0.2A	
	Start-up time	< 0.5\$		
	No Load Power	<0.5W		
	THD (Typ.)	<10%@Full load,230V		
	Over Load Protection	105-150%		
	Over Load Protection	YES/Auto Resume		
Protection	Over Current Protection	> 3.3A	> 2A	
		YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
oonahilih.	Surge capability (L-N)	1KV		
capability	Surge capability (L/N-Ground)	NA		
	Operating Temperature	-20°C~+45°C		
Environment	Humidity	20%-90%RH		
	Tc	85℃		
	Storage Temperature	-20°C~+60°C		
	Life time	> 50000h@Tc=85°C		
	Noise	<20dB(A)@10cm		
Curfoss	Dimension	238X30X16(LXWXH)mm		
Surface	material	PC		
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;		

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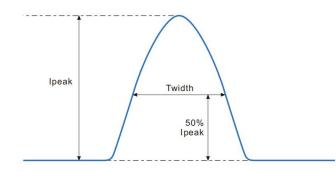




	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	RoHS (2011/65/EU) (EU)2015/863 1.All parameters NOT specially mentioned are measured at 240VAC input, full 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 & parallel capacitor. 3.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.The efficiency testing will be affected by the instrument used and the results may also be different. 5.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, not considered. 6.EL compatible with IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 emergency lighting fixtures, compatible with E central battery system applications. 7.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside	

♦ Inrush Current

\mathbf{I}_{peak}	Twidth	B10	B16	B20	C10	C16	C20
18.6A	146μs	30pcs	49pcs	61pcs	44pcs	71pcs	88pcs



Remarks:

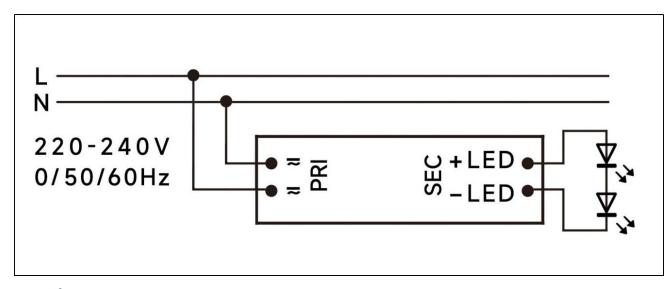
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

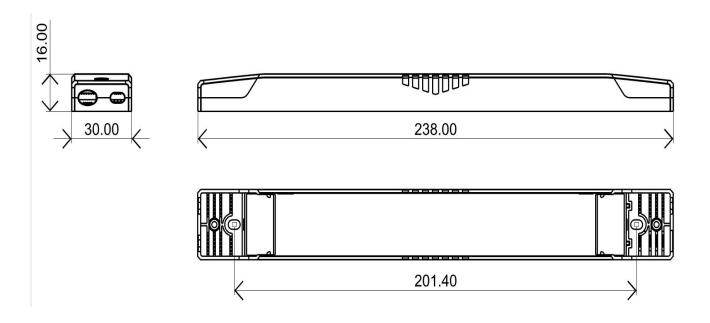
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♦ Wiring diagram



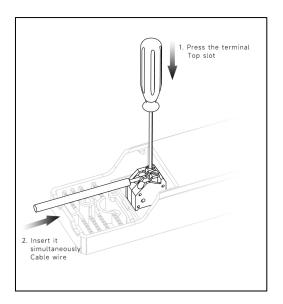
♦ 2D diagram



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Terminal



Wiring & Connections

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

Recommended wire

Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm²)	UL1015

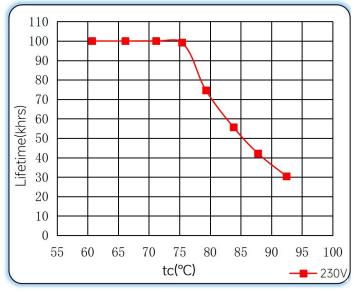
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

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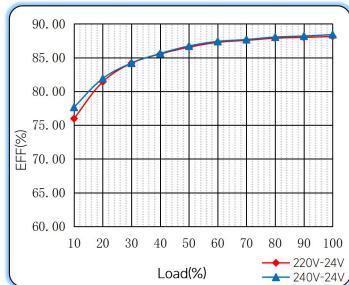


◆ Curve for US-30-24 LI EXC

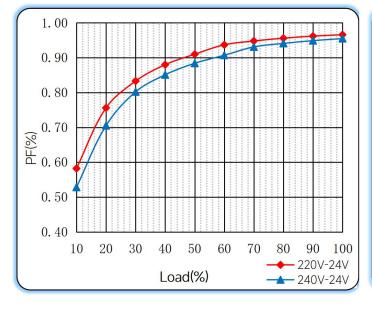
Lifetime vs. Temperature Curve



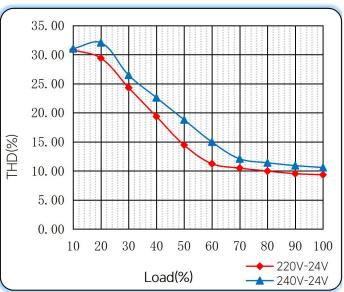
Efficiency vs. Load



Power Factor Characteristics



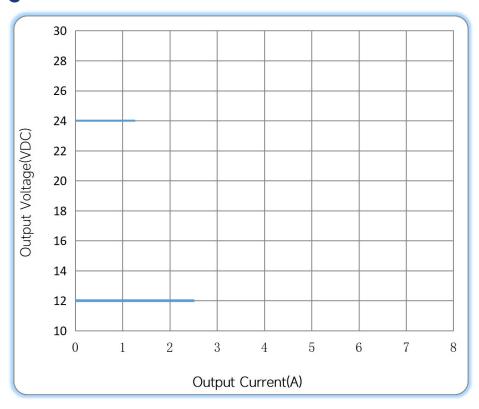
THD vs. Load



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♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/07/11

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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