

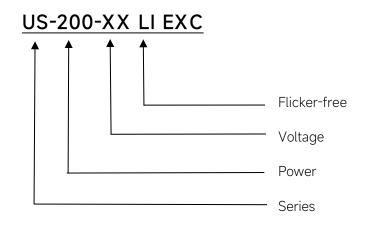
200W constant Voltage-US Series



Description

US-200-XX LI EXC is a 200W constant voltage LED driver that operates from 198-264Vac input with 24V or 48V output voltage. With it's compact dimensions from 383X30X18mm. 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





♦ Specification

	Constant Voltage	24VDC	48VDC		
Output	Current Range	0-8.33A	0-4.16A		
	Voltage Accuracy	±5%			
	Output HF current ripple(>1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	>93%@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	1.3A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	<10%@Full load,230V			
	Over Load Protection	105-150%			
	Over Load Flotection	YES/Auto Resume			
Protection	Over Voltage Protection	<25V	< 49V		
Frotection		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
	Over Temperature Protection	YES/Auto Resume			
capability	Surge capability (L-N)	1KV			
Сарарину	Surge capability (L/N-Ground)	NA			
	Operating Temperature	-20°C~+45°C			
	Humidity	20%-90%RH			
Environment	Тс	85℃			
LIMITOTITIETIC	Storage Temperature	-20°C~+60°C			
	Life time	>50000h@Tc=80°C			
	Ripple & Noise	<20dB(A)@10cm			
Surface	Dimension	383X30X18(LXWXH)mm			
Surface	material	PC			
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;			

Stock code: 002922

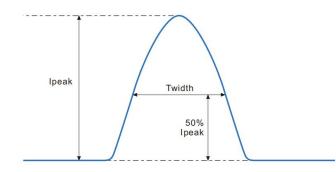
Article information 2025/10/24 REV: B lighting.eaglerise.com YGE-DZ-YF-002-07A



	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 201 parallel capacitor. 3.Switch and dimmer are not recommended. 4.The efficiency testing will be affected 5.The DC input for this product is only not considered. 6.EL compatible with IEC 61347-2-13 And central battery system applications. 7.All Eaglerise power supply are complied. 	oned are measured at 240VAC input, full load and 25°C of ambient temperature. MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF amended to connect between this product output and luminaries. Bed by the instrument used and the results may also be different. For used for emergency lighting and applies to functional and safety requirements, EMC is applied to compatible with EN 60598-2-22 emergency lighting fixtures, compatible with EN 50172 and with EMI regulations. Since they are belong to component and will be installed inside system of a system, the EMI characteristics of the system must be re-verified again.				

Inrush Current

\mathbf{I}_{peak}	Twidth	B10	B16	B20	C10	C16	C20
44.2A	308µs	5pcs	9pcs	11pcs	6pcs	9pcs	12pcs



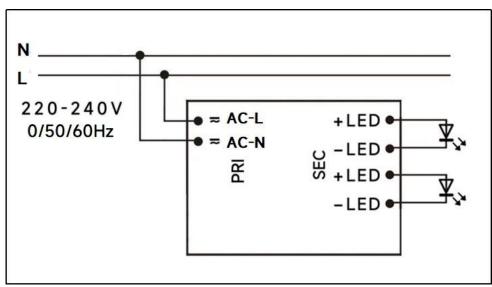
Remarks:

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

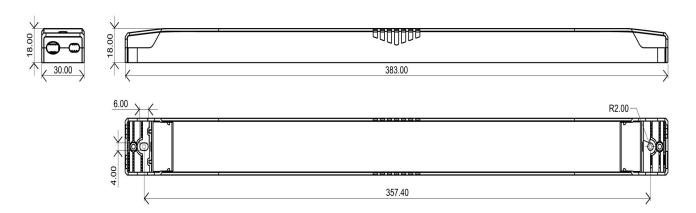
2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.



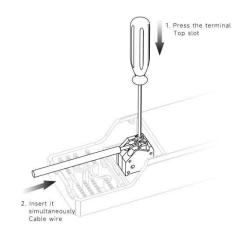
♦ Wiring diagram



♦ 2D diagram



Terminal





♦ Wiring & Connections

	Specification item	Value (Unit)
	Input wire cross-section	0.51.5 mm ²
Input	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

◆ 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.

◆ Packaging

Model	Product	woight/pioco(Kg)	Outer carton	Quantity/carton	Net	Gross
	Dimensions(mm)	weight/piece(Kg)	dimension(mm)		weight/carton(Kg)	weight/carton(Kg)
US-200-XX LI EXC	383x30x18	0.3125	405x315x170	70	22.5	23.52

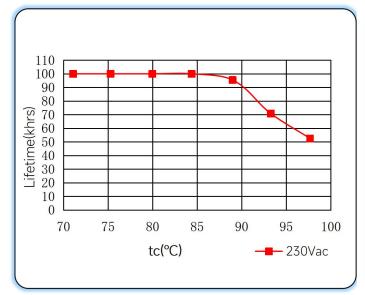
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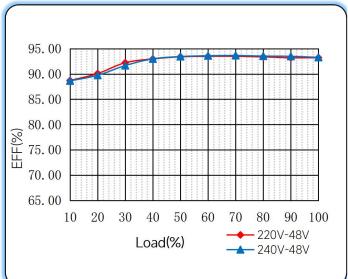


◆ Curve for US-200-48 LI EXC

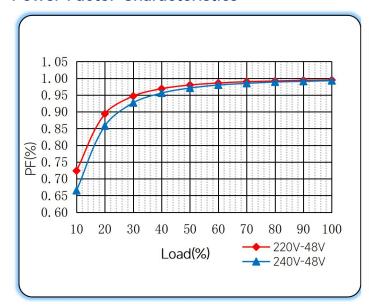
Lifetime vs. Temperature Curve



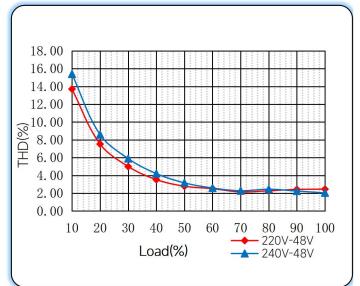
Efficiency vs. Load



Power Factor Characteristics

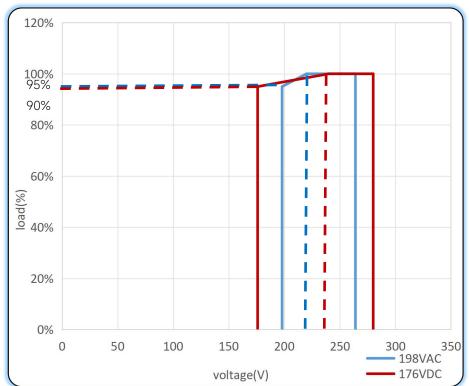


THD vs. Load



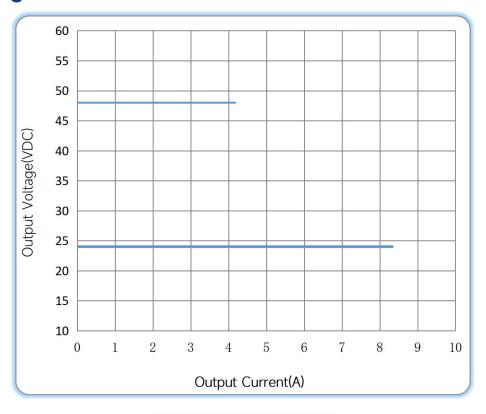


♦ Derating curve





♦ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/07/11
Life time	> 50000h@Tc=85°C	>50000h@Tc=80°C	В	2025/10/24

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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