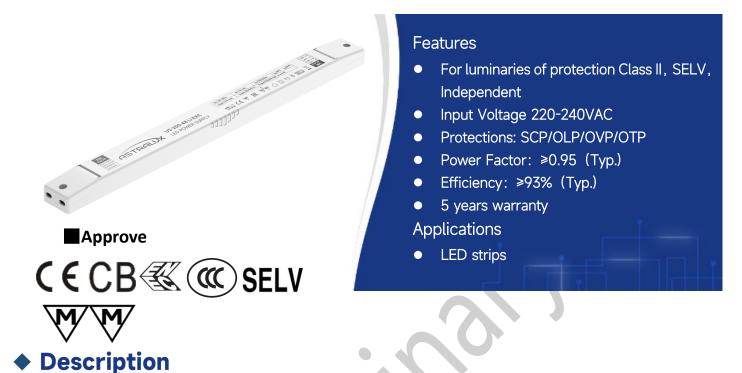
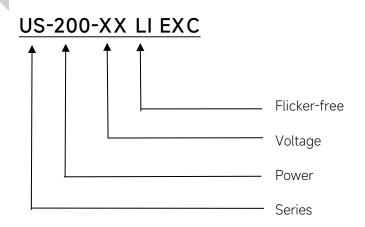


200W constant Voltage-LS Series



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

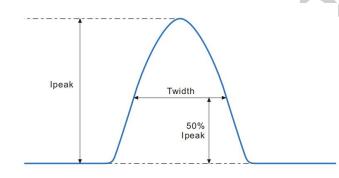
Output	Constant Voltage	24VDC	48VDC		
	Current Range	0-8.33A	0-4.16A		
	Voltage Accuracy	±5%			
	Output HF current ripple(>1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	€1			
	Efficiency(Typ.)	>93%@Full load,230V			
	Rated input voltage	220-240V			
	Range of input voltage	198-264VAC			
	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 Protection	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 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=85°C			
	Ripple & Noise	<20dB(A)@10cm			
Curfoos	Dimension	383X30X18(LXWXH)mm			
Surface	material	PC			
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;			



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

♦ Inrush Current

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
Α	μs	pcs	pcs	pcs	pcs	pcs	pcs



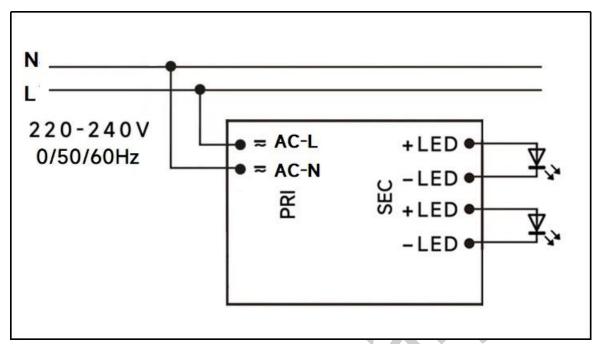
Remarks:

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	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.



◆ Curve for US-200-24 LI EXC

Lifetime vs. Temperature Curve

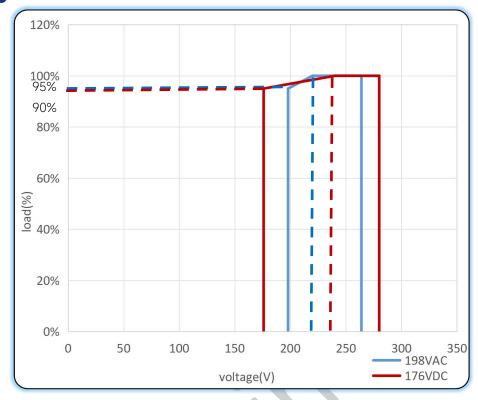
Efficiency vs. Load

Power Factor Characteristics

THD vs. Load

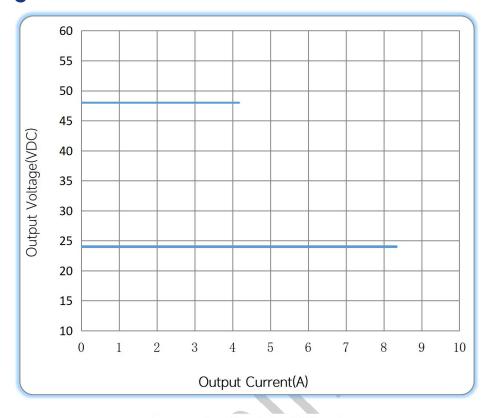


♦ Derating curve





♦ Operating window



Operating window 100%

♦ Revision Updates

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

Remark: The final interpretation of the contents of the specification belongs to Astralux.

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