

250W Constant Voltage Series



■ Approve



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor > 0.95
- Efficiency : 93%
- 5 years warranty

Applications

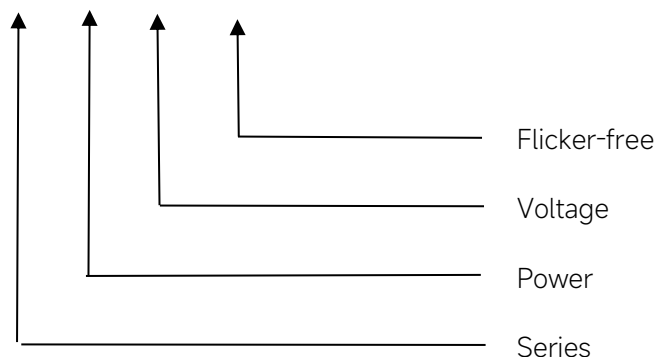
- Magnetic Lamp

◆ Description

LS-250-48 LX is a 250W constant voltage LED driver that operates from 198-264Vac input with 48V output voltage. With it's slim dimensions from 404 x 22x 42.5mm it is easy to integrate in Magnetic Lamp. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

◆ Model code

LS-250-48 LX



◆ Specification

Output	Constant Voltage	48VDC
	Current Range	0-5.20A
	Voltage Accuracy	±2VDC
	Output HF current ripple(≥1KHz)	±4%
	Output LF current ripple(≤120Hz)	±4%
	SVM	≤0.4
	P _{st}	≤1
	Efficiency(Typ.)	93%
Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Frequency(Hz)	50/60 Hz
	Displacement factor	≥0.9
	Power Factor	> 0.95
	Input Current max (mA)	1.5 A MAX
	Start-up time	< 0.7S
	No Load Power	≤0.5W
	THD (Typ.)	<10%
Protection	Over Load Protection	105-150% rated output power YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	-20°C~+45°C
	Humidity	20%-90%RH
	Tc	90°C
	Storage Temperature	-40°C...+80°C
	Life time	≥50000h@Tc=75°C, full load
Surface	Dimension	404 x 22x 42.5 (LXWXH)mm
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1. All parameters NOT specially mentioned are measured at 230VAC 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 & 47 uF parallel capacitor.	

◆ Model list

Number	Model number	Input			Output		
		Voltage (VAC)	Max.Current (A)	Frequency (Hz)	Normal working Voltage(V)	Normal working current (A)	Power (W)
1	LS-250-48 LX	220-240	1.5	50/60	48	0-5.2	250

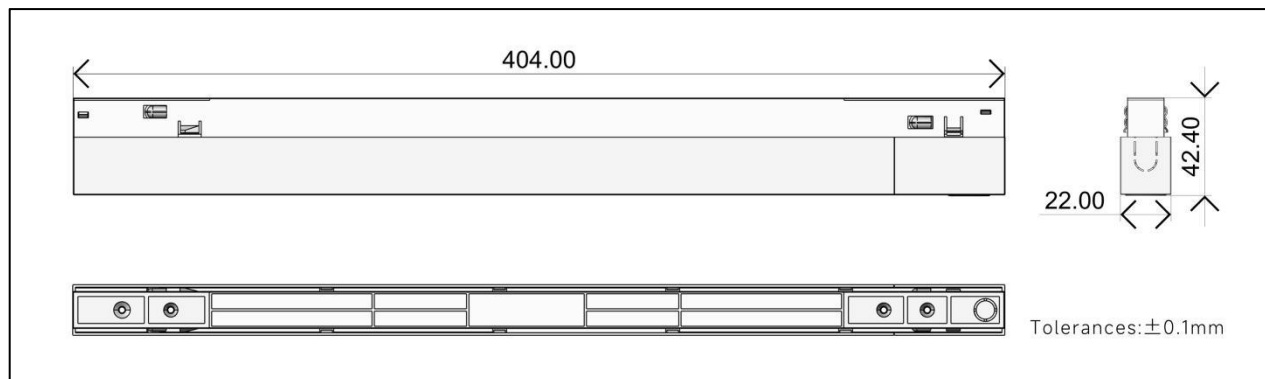
Note:

Test condition: 230Vac/50Hz, at full Load;

◆ Circuit Breaker

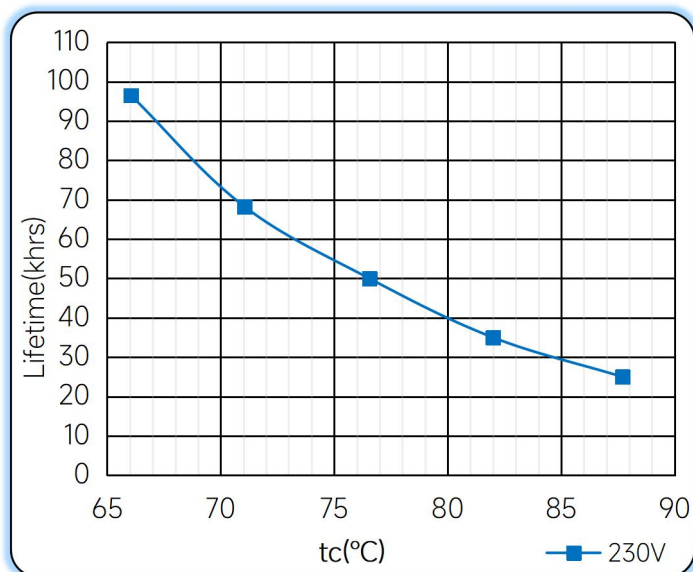
I ^{peak}	T _{width}	B10	B16	B20	C10	C16	C20
44.4A	440μs	3pcs	6pcs	7pcs	5pcs	8pcs	10pcs

◆ 2D diagram

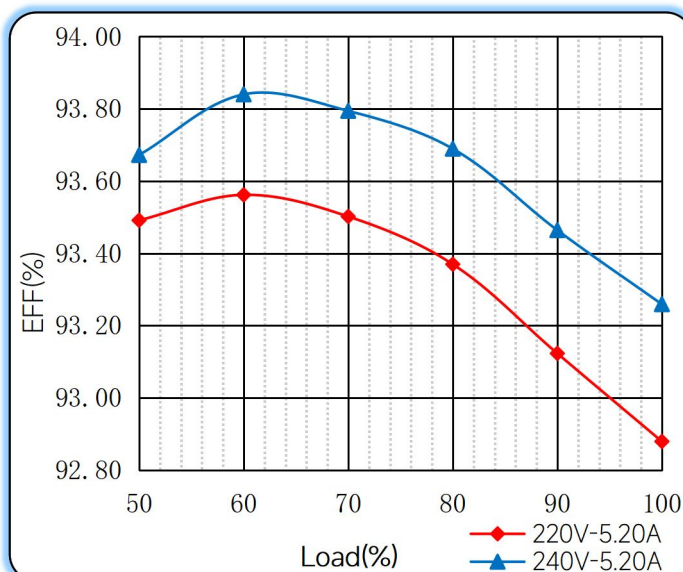


◆ Curve for LS-250-48 LX

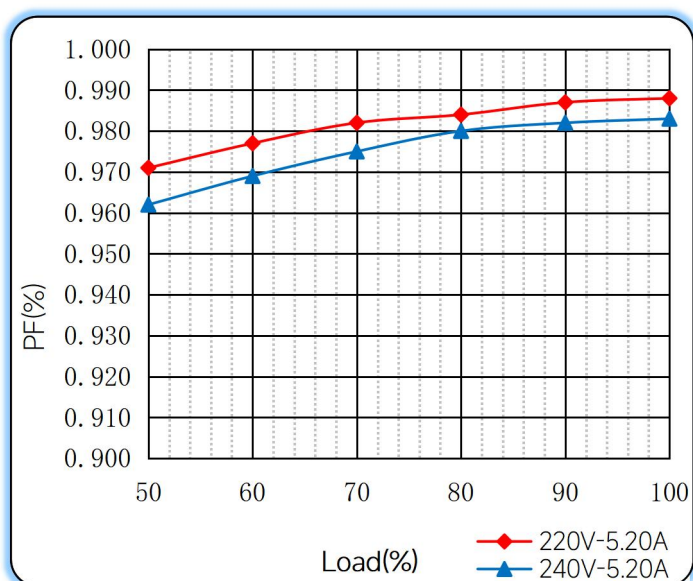
Lifetime vs. Temperature Curve



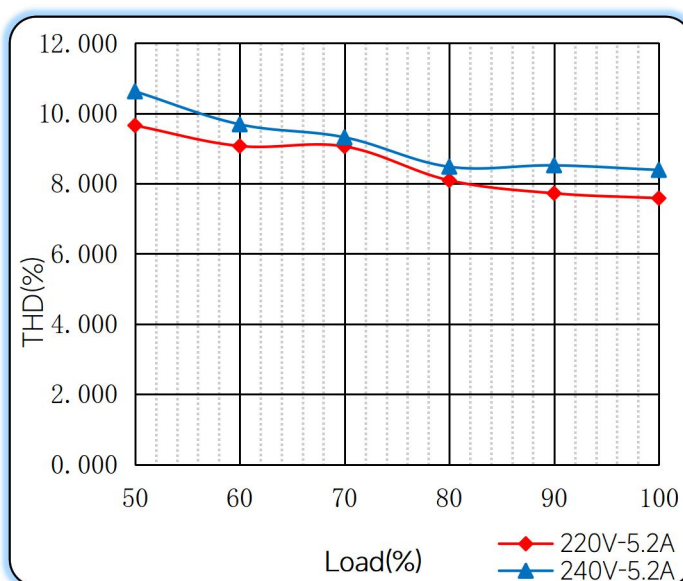
Efficiency vs. Load



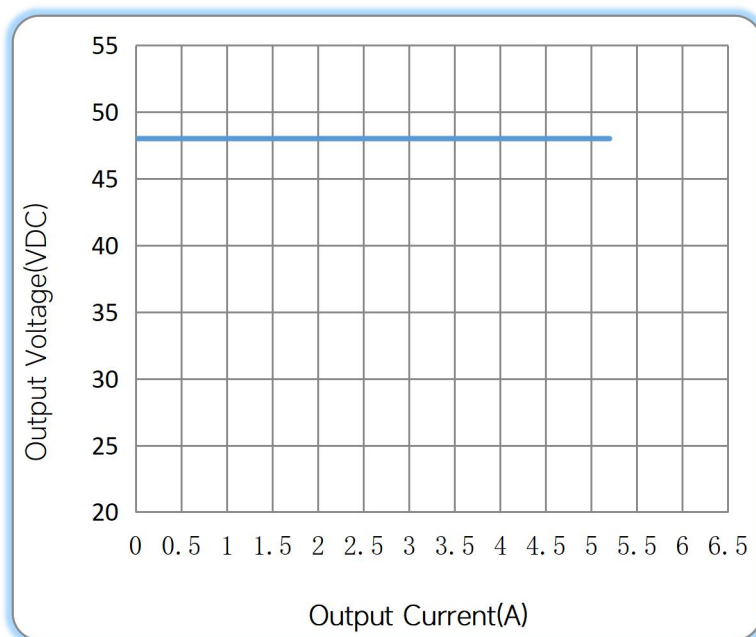
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/06/10
Curve		Added	B	2023/01/06

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



EAGLERISE



Manual