

100W Constant Voltage Series



Features

Class II, SELV, Independent
Input Voltage 220-240VAC
Protections: SCP/OLP/OVP
Power Factor: >0.95
Efficiency: 88%
5 years warranty

Applications

Magnetic Lamp

■ Approve

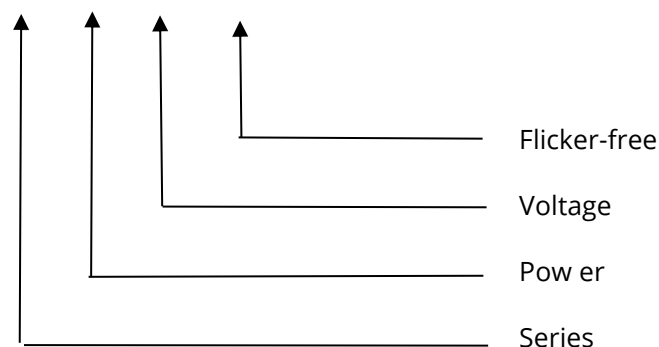


Description

LS-100-48 LX EXC is a 100W constant voltage LED driver that operates from 198-264Vac input with 48V output voltage. With it's slim dimensions from 325*22.8*43mm 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-100-48 LX EXC



Specification

Output	Constant Voltage	48VDC
	Current Range	0-2.08A
	Voltage Accuracy	±5%
	Output HF current ripple(≥1KHz)	±4%
	Output LF current ripple(≤120Hz)	±4%
	SVM	≤0.4
	Pst	≤1
	Efficiency(Typ.)	≥88%
Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Frequency(Hz)	50/60Hz
	Displacement factor	≥0.9
	Power Factor	>0.95
	Input Current max	0.6A _{MAX}
	Start-up time	<0.5S
	No Load Power	≤0.5W
	THD(Typ.)	<10%
Protection	Over Load Protection	105-150% rated output power YES/Auto Resume
	Short circuit Protection	YES/AutoResume
	Over Temperature Protection	YES/AutoResume
Environment	Operating Temperature	-20°C...+45°C
	Humidity	20%-90%RH
	Tc	60°C
	Storage Temperature	-40°C...+80°C
	Lifetime	≥50,000h@TC=60°C,fullload
Surface	Dimension	325*22.8*43mm
s standards	EN61347-1; EN61347-2-13;EN62384; EN55015;EN61000-3-2;EN61000-3-3; EN61547	
Others	ErP	EU2019/2020
	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 capa citor. 3.The power supply of the guide rail should be used together with the guide rail	

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-100-48LXEXC	220-240	0.6	50/60	48	0-2.08	100

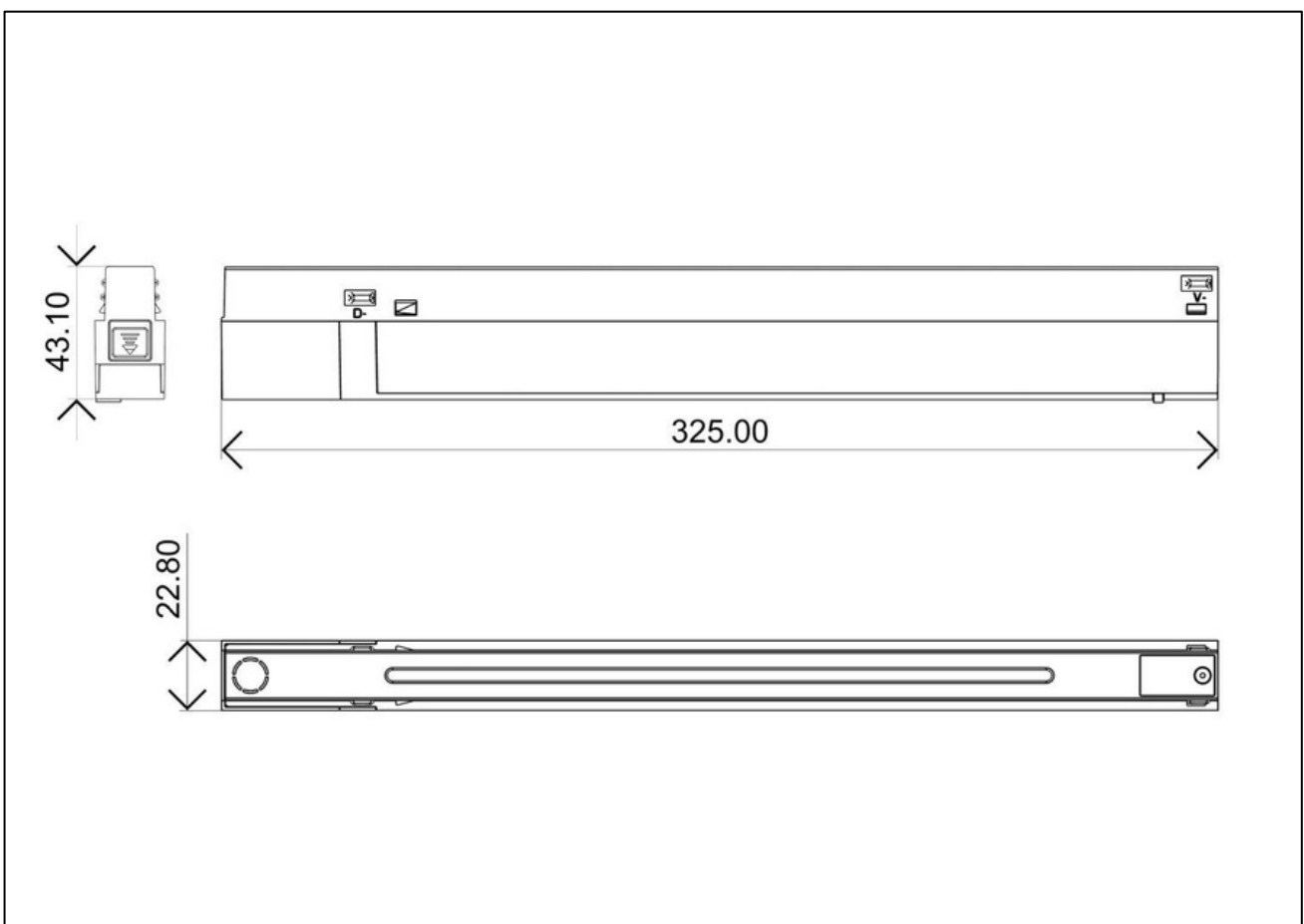
Note:

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

Circuit Breaker

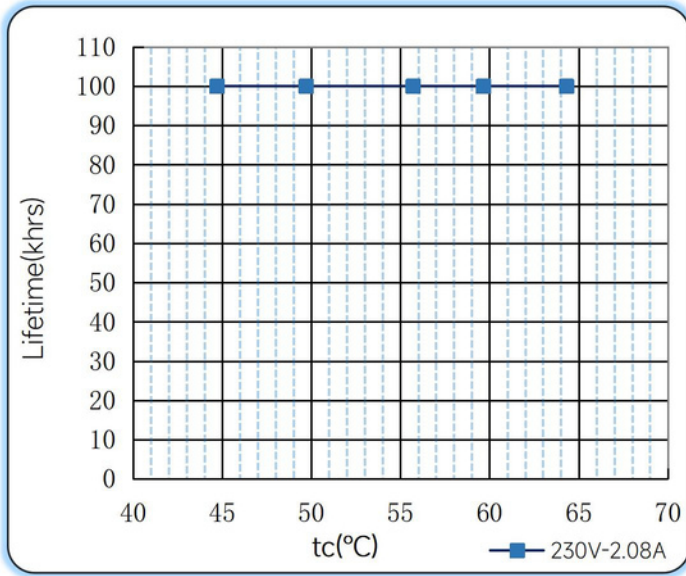
Ipeak	Tw idth	B10	B16	B20	C10	C16	C20
4 0.2A	196 μs	10pcs	16pcs	20pcs	13pcs	21pcs	26pcs

2D diagram

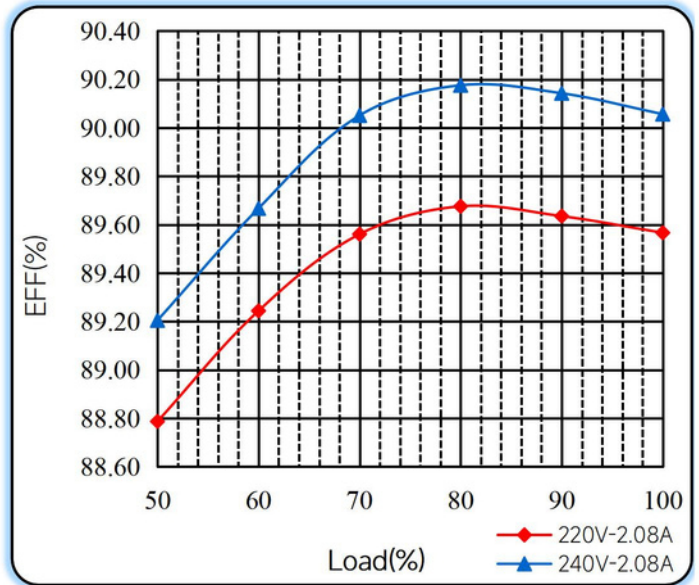


Curve for LS-100-48 LX EXC

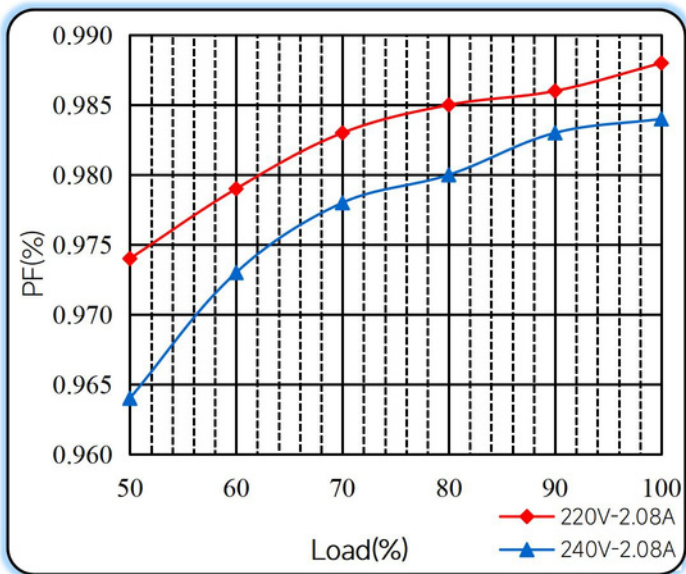
Lifetime vs. Temperature Curve



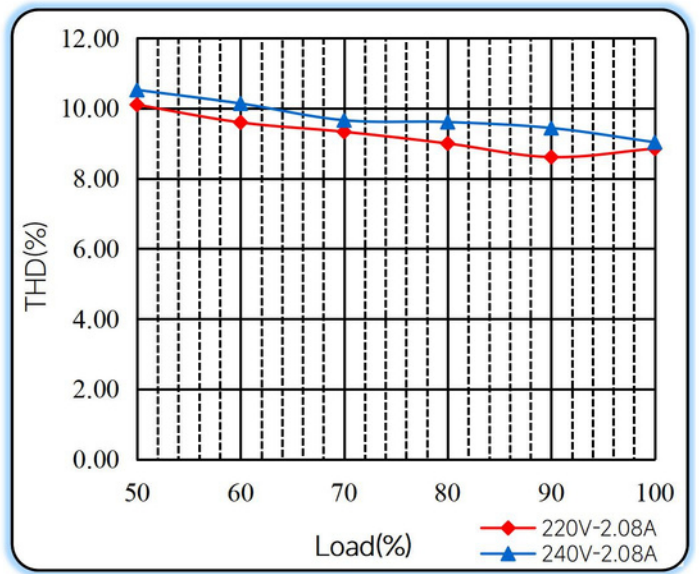
Efficiency vs. Load



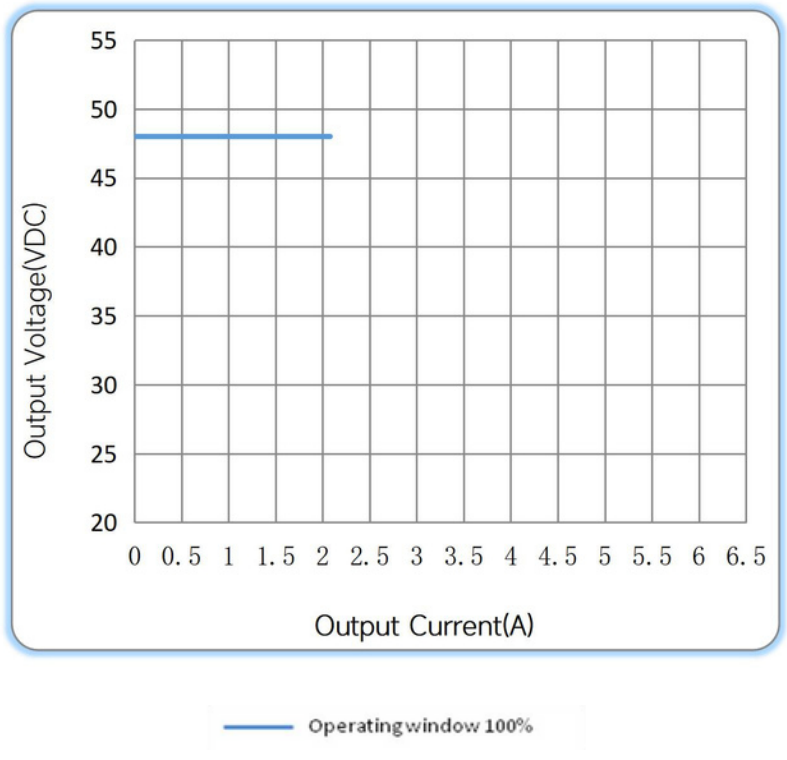
Power Factor Characteristics



THD vs. Load



Operating window



Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/03/07