

# 150W 0-10 Dimming constant voltage power supply



### Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency:  $\geq 92\%$ (Typ.)
- 5 years warranty
- Support 0-10V,RX,PWM Dimming

### Applications

- LED strips

■ Approve

CE CB CCC SELV

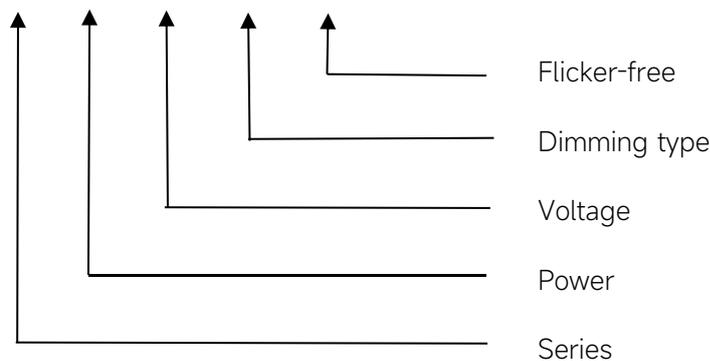


## ◆ Description

LS-150-24 0-10 LI is a 150W constant voltage LED driver that operates from 198-264Vac input with 24V output voltage. With it's compact dimensions from 318 x 38 x 30 mm. It is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit, over load and over temperature.

## ◆ Model code

### LS-150-24 0-10 LI



## ◆ Specification

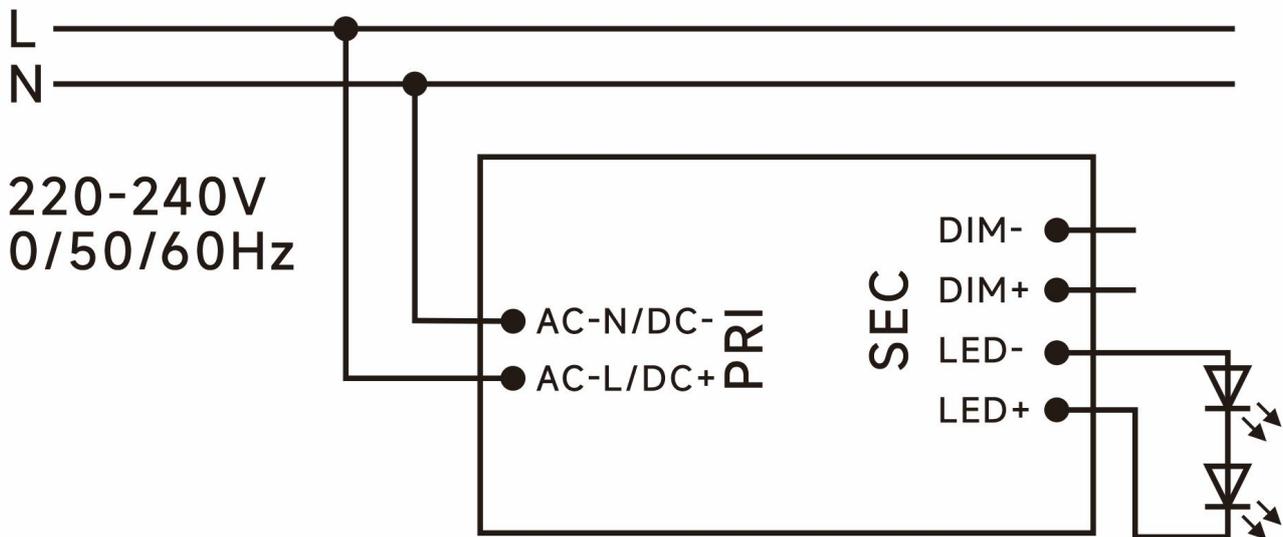
Output	Constant Voltage	24VDC
	Current Range	0-6.25A
	Voltage Accuracy	±5%
	Output HF voltage ripple(≥1KHz)	±1%
	Output LF voltage ripple(≤120Hz)	±1%
	SVM	≤0.4@Full Load
	P <sub>st</sub>	≤1@Full Load
	Efficiency(Typ.)	≥92%@220-240VAC, Full load
	EOFI	15%
Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Rated input voltage(DC)	176-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9
	Power Factor	>0.95@Full Load,230V
	Input Current max	1A MAX. @Full Load,198VAC
	Start-up time	< 0.5S
	Standby Power	≤0.5W
	Network standby power	≤0.5W
	THD (Typ.)	< 10% @220-240VAC, Full load
Dimming	Dimming	YES
	Dimming mode	0-10V,RX,PWM Dimming
	Dimming depth	1%
	Dimming current range	1-100%
	Dimming frequency	20KHz-5KHz Frequency variation
Protection	Over Load Protection	105-150% rated output power YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
	Over Temperature Protection	YES/Auto Resume
Capability	Surge capability (L-N)	2KV
	Surge capability (L/N-Ground)	NA
Environment	Operating Temperature	-20°C...+45°C
	Humidity	20%-90%RH
	Tc	85°C
	Storage Temperature	-20°C...+85°C
	Noise	≤25dB(A)@20cm
	Life time	≥50000h@Tc=75°C, full load
Surface	Dimension	318x 38 x 30mm(LXWXH)mm

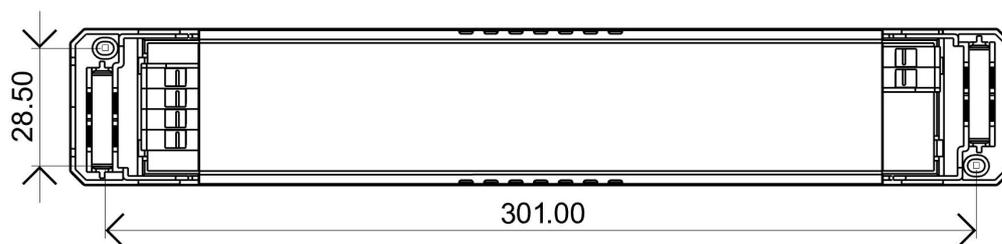
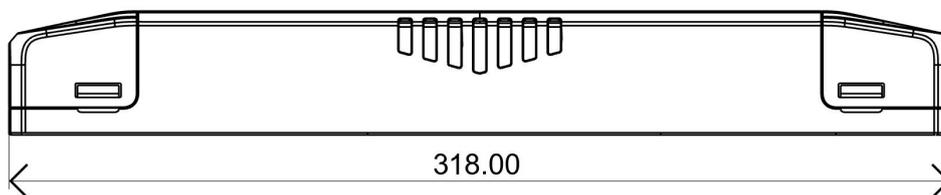
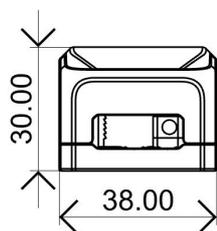
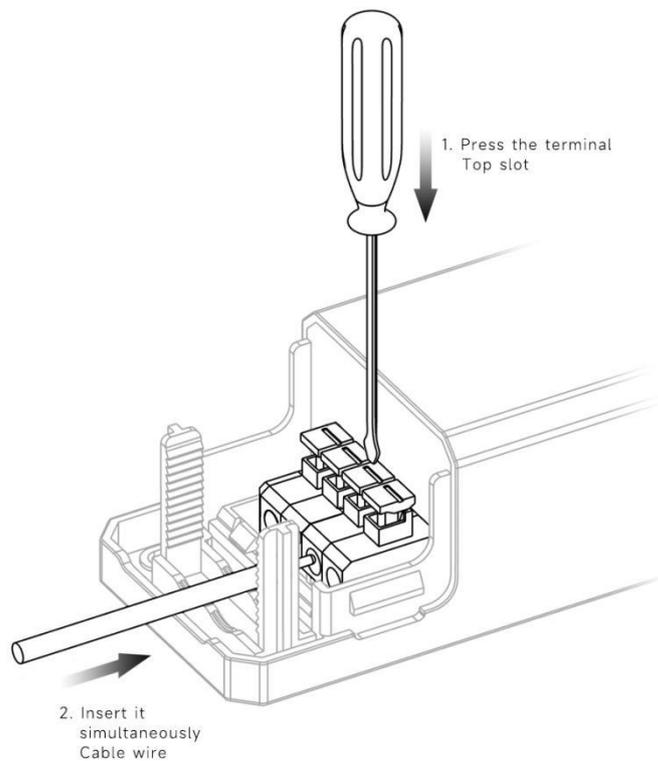
	material	PC
Standards	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1;EN61347-2- 13, EN62384;EN55015	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.	

### ◆ Circuit Breaker

I <sub>peak</sub>	T <sub>width</sub>	B10	B16	B20	C10	C16	C20
45A	440μs	3pcs	6pcs	7pcs	6pcs	10pcs	13pcs

### ◆ Wiring diagram



**◆ 2D diagram****Terminal**

## ◆ Wiring & Connections

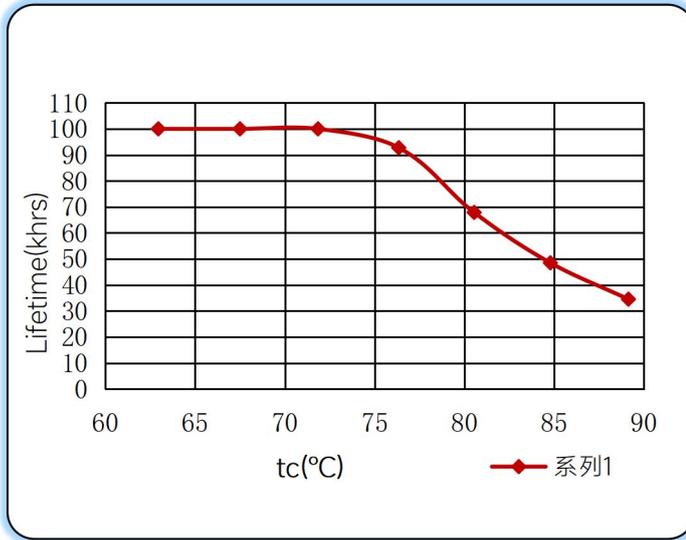
Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Packaging

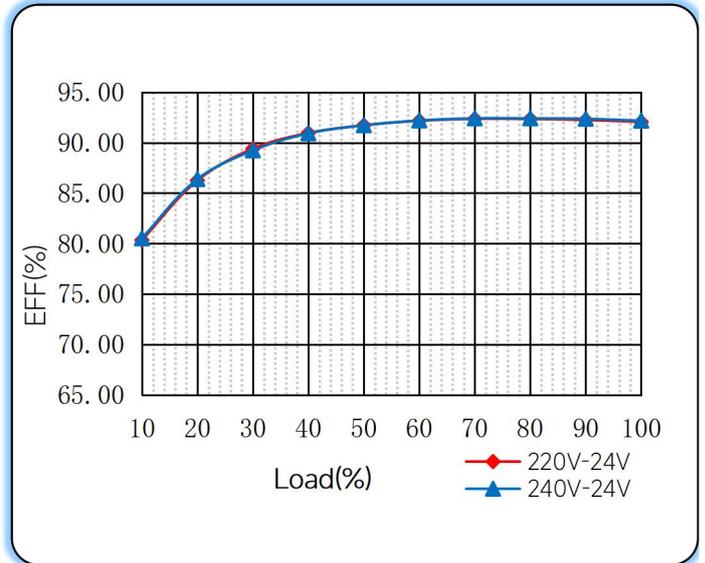
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-150-24 0-10 LI	318 x 38 x 30	0.445	385 x 285 x 225	35	15.575	17.72

### ◆ Curve for LS-150-24 0-10 LI

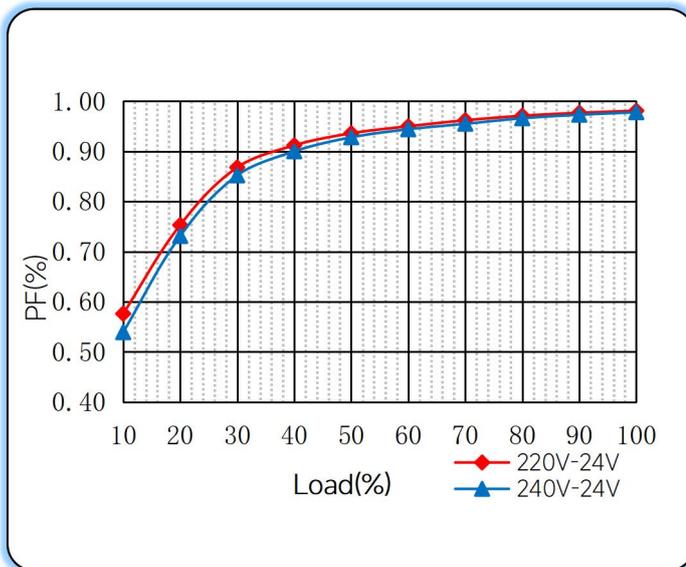
Lifetime vs. Temperature Curve



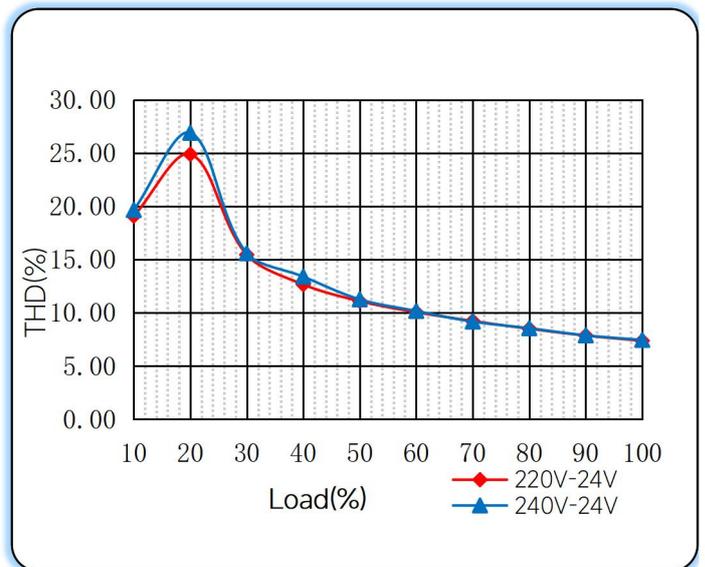
Efficiency vs. Load



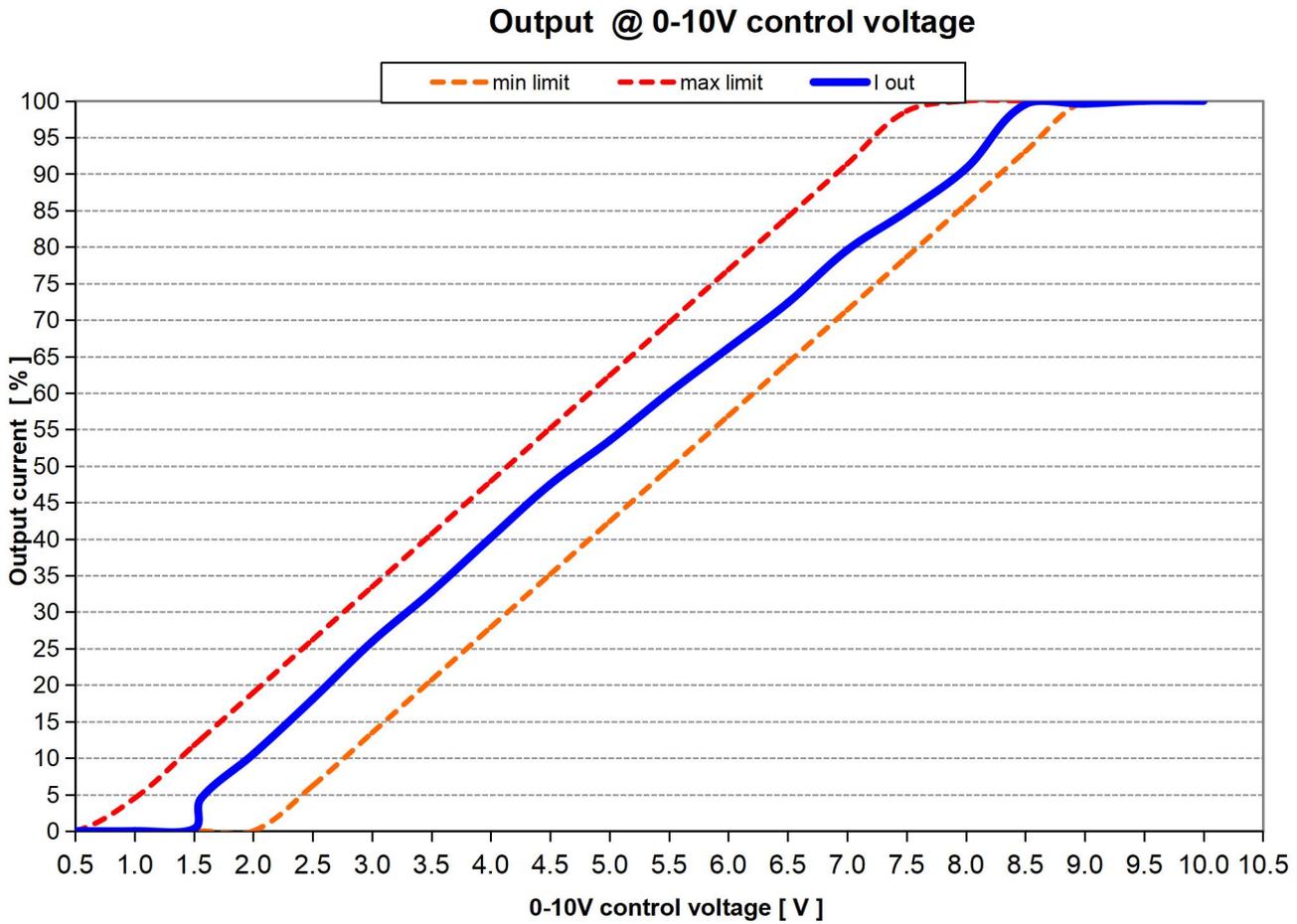
Power Factor Characteristics



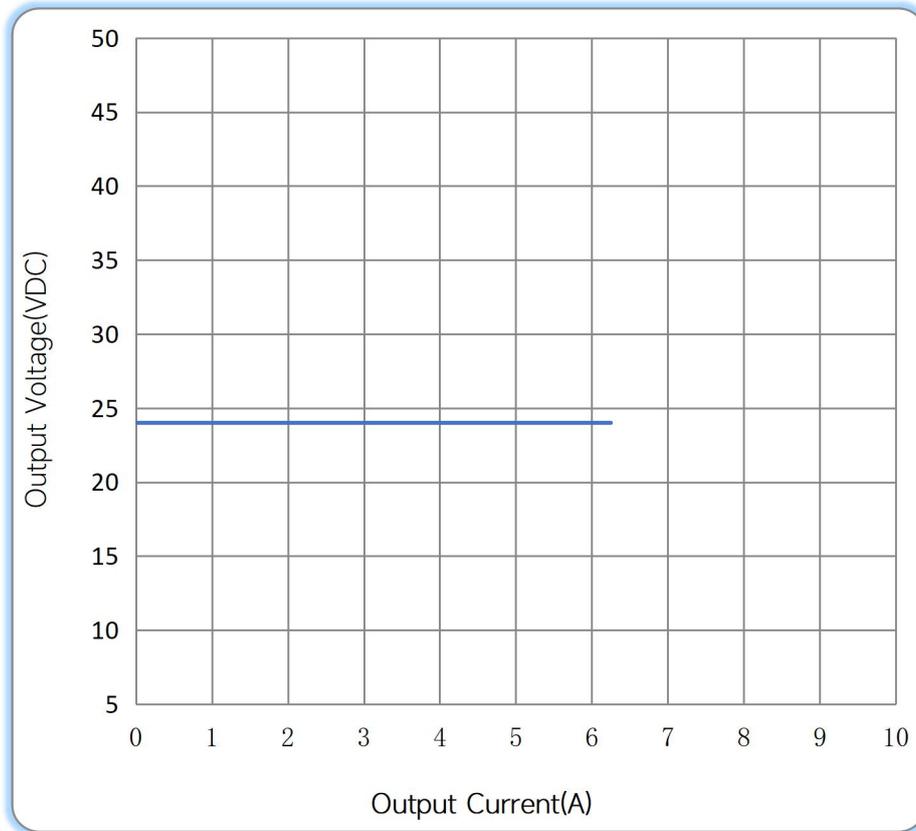
THD vs. Load



◆ The dimming curve



### ◆ Operating window



— Operating window 100%

### ◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/07/18
EOFI		Adding	B	2025/8/25
Dimming frequency		Adding	C	2025/11/22
Dimming frequency	20KHz-3KHz Frequency variation	20KHz-5KHz Frequency variation	D	2026/1/28

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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