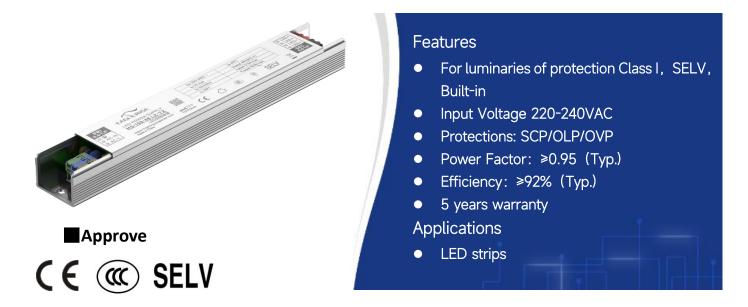


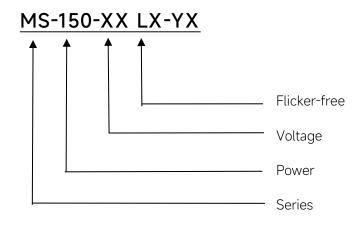
# 150W constant Voltage-MS Series



### Description

MS-150-XX LX-YX is a 150W constant voltage LED driver that operates from 198-264Vac input with 48V output voltage. With it's compact dimensions from 249 x 34 x 22.1mm. 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**



Stock code: 002922



# **♦** Specification

	Constant Voltage	24VDC	48VDC			
Output	Current Range	0-6.25A	0-3.13A			
	Voltage Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	>92%@Full load,230V				
	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	Maximum voltage	300VAC@1 h maximum,unit mig	ht not operate in this abnormal condition			
	Frequency(Hz)	50/60 Hz				
lan. +	Displacement factor	≥0.9				
Input	Power Factor	≥0.95@Full load,230V				
	Input Current max	1A				
	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	Our Valtage Duetastics	60VDC				
	Over Voltage Protection	YES/Auto Resume				
	Short circuit Protection	YES/Auto Resume				
oonobilit.	Surge capability (L-N)	1KV				
capability Surge capability (L/N-Ground		2KV				
	Operating Temperature	-20°C~+40°C				
	Humidity	20%-90%RH				
Environment	Tc	80°C				
Environment	Storage Temperature	-20°C~+60°C				
	Life time	> 50000h@Tc=75°C				
	Ripple & Noise	<25dB(A)@20cm				
	Dimension	249x34x22.1(LXWXH)mm				
Surface	material	metal case				
	Safety	GB19510. 1, GB19510. 14;EN61347- 1, EN61347-2- 13				
Ctandarda	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3,				
Standards		EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547				
	Energy Efficiency	Erp2.0 EU 2019/2020				

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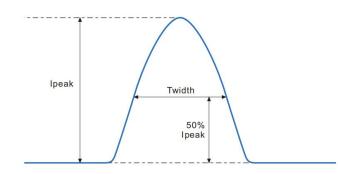




	RoHS	RoHS (2011/65/EU) (EU)2015/863				
	1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25°C of ambient temperature.					
	2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.					
	3.Switch and dimmer are not recommended to connect between this product output and luminaries.					
	4. The efficiency testing will be affected by the instrument used and the results may also be different.					
	5. The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.					
Note	6.EL compatible with IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 emergency lighting fixtures, compatible with EN 50172 central battery system applications.					
	7.The over-temperature protection of the product is provided by the IC.					
	8.The start-up time is measured unde degrees	r cold start-up, frequent switching on and off may extend the start-up time to different				
	9. The temperature of the components shall not exceed the maximum limit under rated operating conditions.					
	10.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system					
	enclosure. When they are integrated into	a system, the EMI characteristics of the system must be re-verified again.				

#### **♦ Inrush Current**

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
36.2A	<b>188</b> µs	8pcs	12pcs	16pcs	8pcs	12pcs	16pcs



#### Remarks:

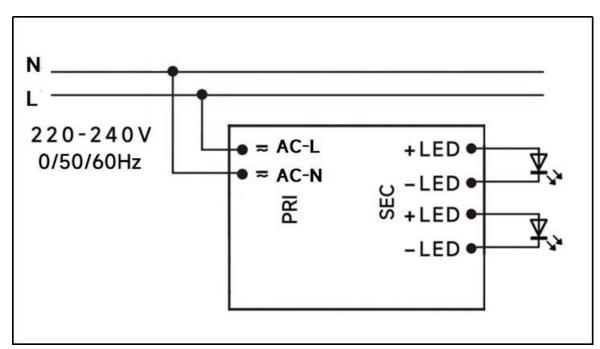
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

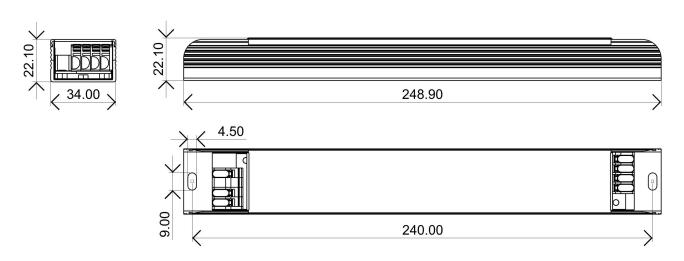
Stock code: 002922



# **♦ Wiring diagram**



# ◆ 2D diagram



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# **♦ Wiring & Connections**

Specification item		Value (Unit )
Input	Input wire cross-section	0.51.5 mm <sup>2</sup>
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.51.5 mm²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

### Packaging

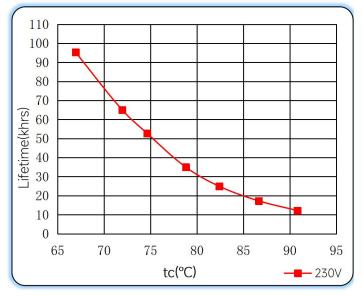
Model	Product	woight/pioco	Outer carton	Quantity/carton	Net	Gross
Model	Dimensions(mm)	weight/piece	dimension(mm)		weight/carton(Kg)	weight/carton(Kg)
MS-150-XX	242x34x24.2	0.2002	Inside:295X255X200	48	10.0416	10.5816
LX-YX		0.2092	Outside:310X265X210			

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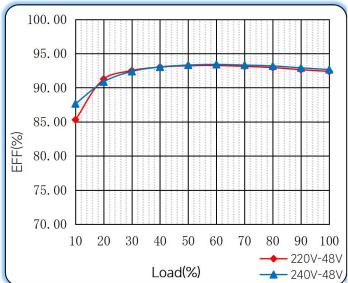


#### ◆ Curve for MS-150-48 LX-YX

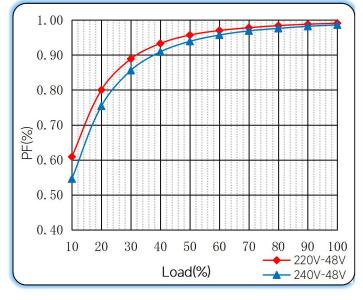
#### Lifetime vs. Temperature Curve



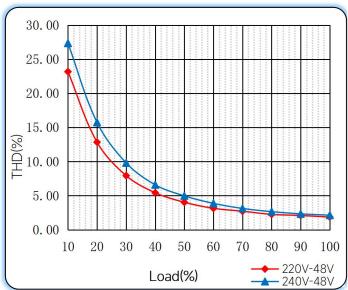
#### Efficiency vs. Load



#### **Power Factor Characteristics**



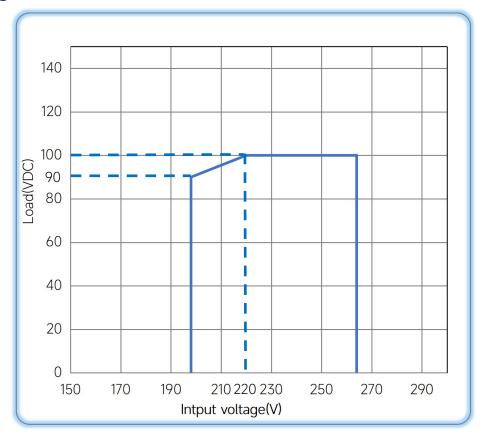
THD vs. Load



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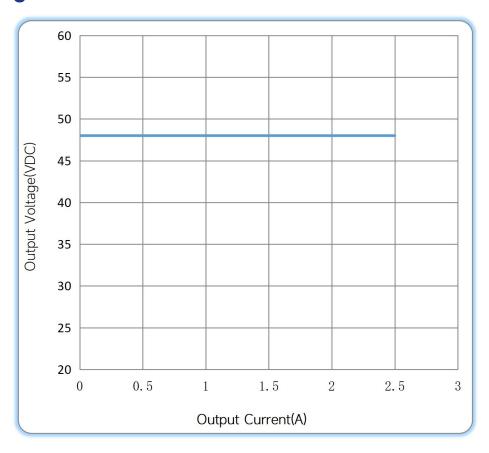
# **Derating curve**



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#### **♦ Operating window**



Operating window 100%

### **♦ Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/12/11

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

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REV: A