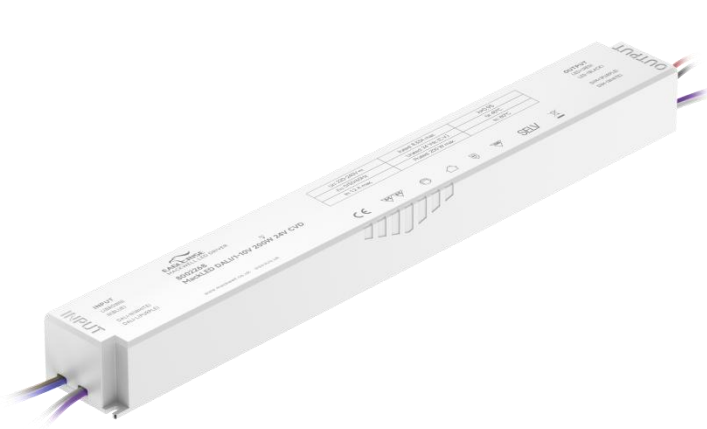


200W Constant Voltage DALI+0-10 Driver



■ Approve

CE CB SELV

◆ Description

VTS-200-24 DALI-2 0-10 L series is a 200W, constant-Voltage IP65 LED driver that operates from 198-264Vac input with excellent power factor and THD feature. With its compact dimensions from 350 X 45 X 33 mm. This series of products is specially designed for direct power supply applications such as LED strips. The high efficiency of these drivers and compact plastic case enable them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over load, short circuit, and over temperature.

Features

- High efficiency up to 91%
- Built-in active PFC function
- All-Around Protection: OLP, SCP, OTP
- Compact plastic Case, Free Air Convection
- Support DALI-2, Push, 0-10V Dimming
- Input Surge Protection: 1kV line-line
- High Reliability & Long Lifetime & 5 Years Warranty

Applications

- LED strips

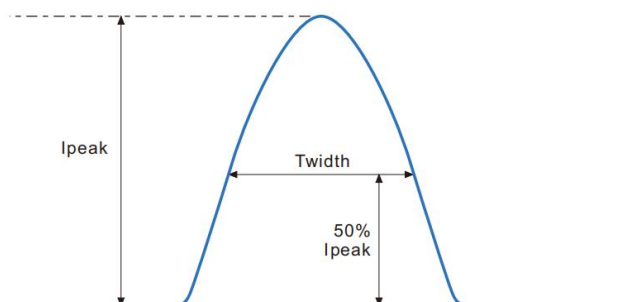
◆ Specification

Output	Constant Voltage	24VDC
	Current Range	0-8.33A
	Voltage Accuracy	±5%
	Output HF Voltage ripple(≥1KHz)	±1%
	Output LF Voltage ripple(≤120Hz)	±1%
	SVM	≤0.4@Full Load
	P _{st}	≤1@Full Load
	Efficiency(Typ.)	>91%@Full load,220-240VAC
	EOFI	15%
Input	Rated input voltage	220-240V
	Range of input voltage	198-264VAC
	Range of input voltage(VDC)	176-280VDC
	Frequency(Hz)	0/50/60Hz
	Displacement factor	≥0.9
	Power Factor	≥0.95@Full load,230V
	Input Current max	1.2AMAX. @Full Load,198VAC
	Start-up time	< 0.8S
	Standby Power	≤0.5W@DIM TO OFF,@230VAC
	THD (Typ.)	<10%@Full load,230V
Dimming	Dimming	YES
	Dimming mode	DALI-2 (IEC 62386-101,102,207,Part 251,252,253) & Push Dimming (Corridor Function) & 0-10V
	Dimming depth	1%
	Dimming current range (DALI-2 & Push)	1~100%
	Dimming current range (0-10V)	0~100%
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)	1KV
	Surge capability (L/N-Ground)	NA
Environment	Operating Temperature	-20°C~+45°C
	Humidity	20%-90%RH
	Tc	80°C
	Storage Temperature	-30°C~+85°C
	Life time	≥50000h@Tc=75°C,@Full load,230VAC

	Noise	≤25dB(A)@20cm
Surface	Dimension	350X45X33(LXWXH)mm
standards	EN 61347-1;EN 61347-2-13;EN 62384;EN 61547;EN55015,EN61000-3-2,EN 61000-3-3	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<p>1.All parameters NOT specially mentioned are measured at 230Vac input and 25°C of ambient temperature.</p> <p>2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 μF parallel capacitor.</p> <p>3.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on the fixture.</p> <p>4.The IC setting protection logic is: many times quick switch will caused 1s delay to power on, the interval of start up time more 2s, will be power on normally.</p> <p>5.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.</p>	

◆ Inrush Current

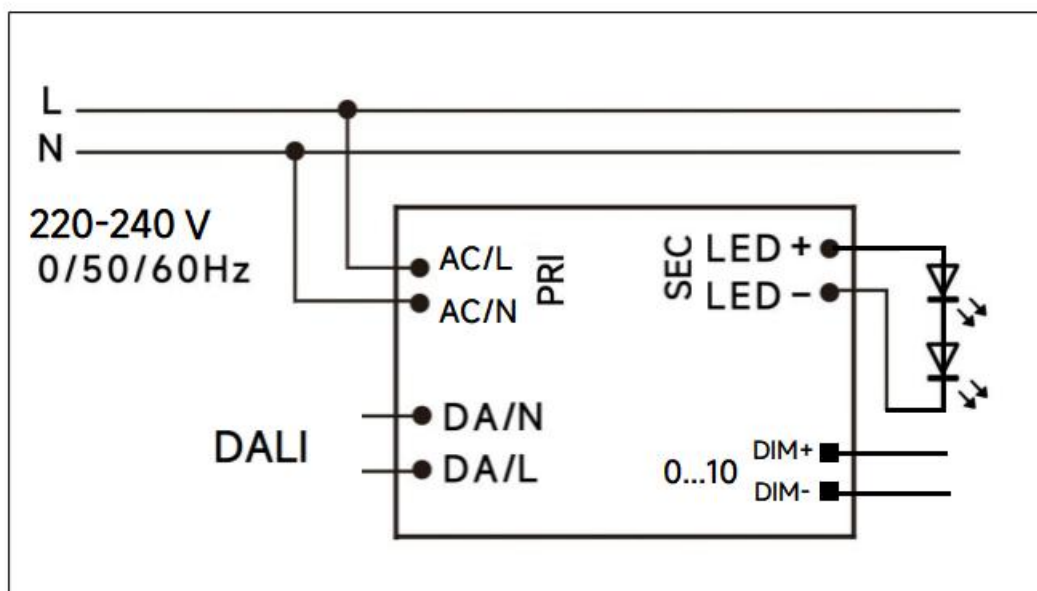
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
38.4A	350μs	5pcs	9pcs	11pcs	6pcs	10pcs	13pcs



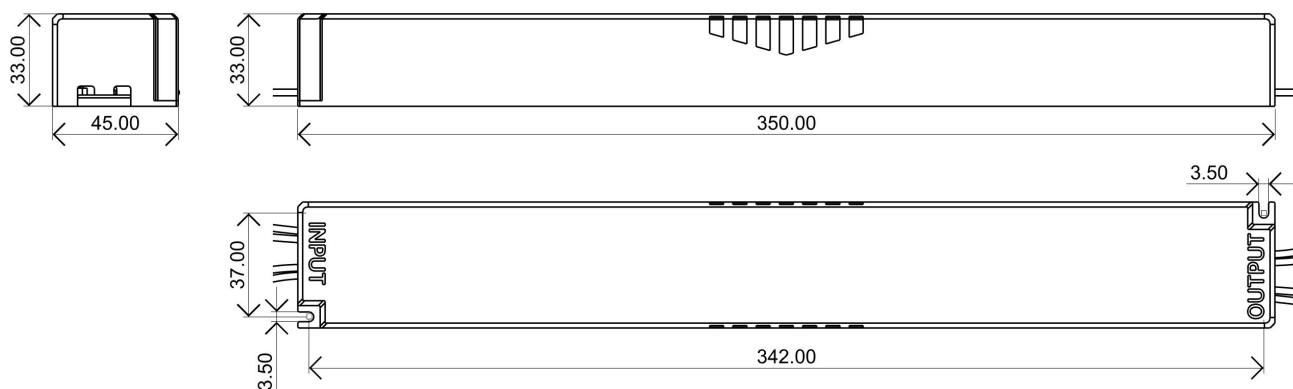
Remarks:

- 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

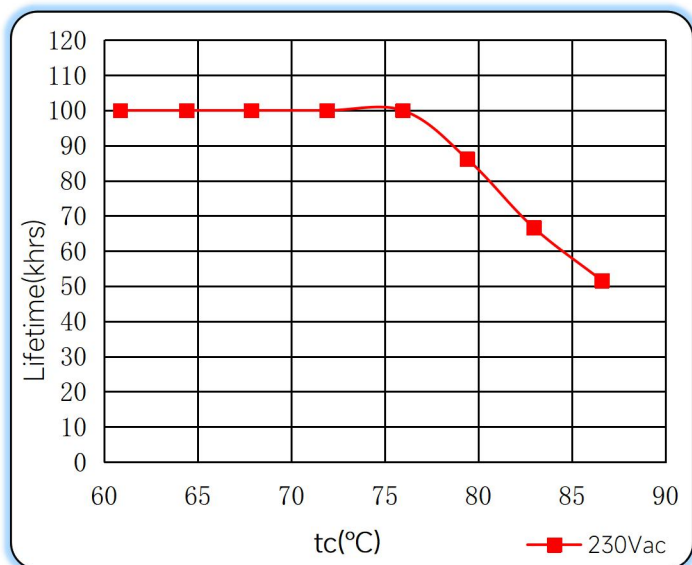


◆ 2D diagram

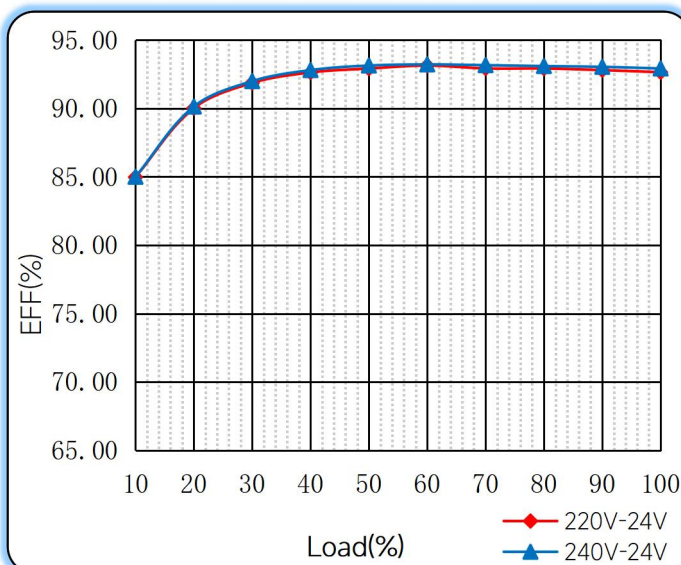


◆ Curve for VTS-200-24 DALI-2 0-10 L

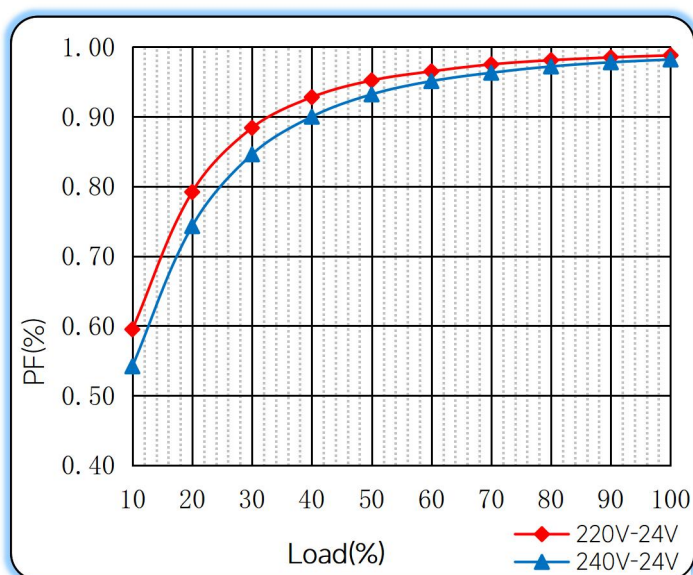
Lifetime vs. Temperature Curve



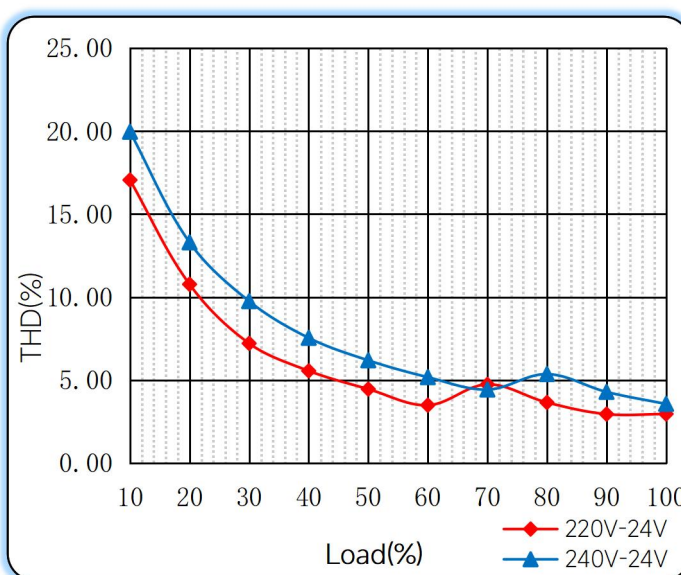
Efficiency vs. Load



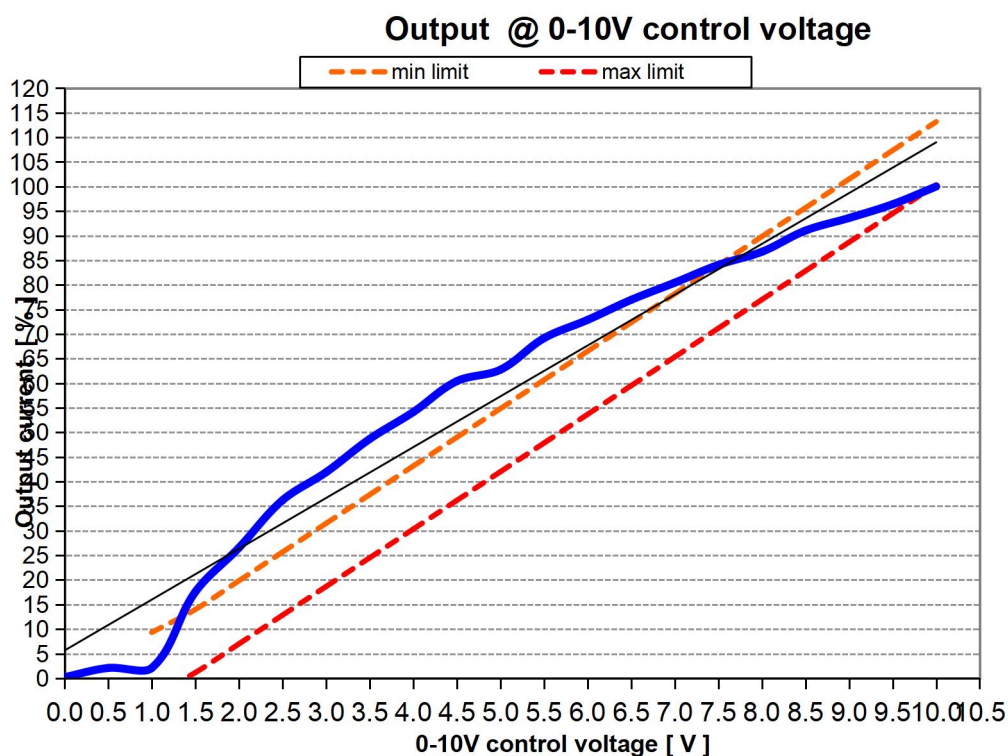
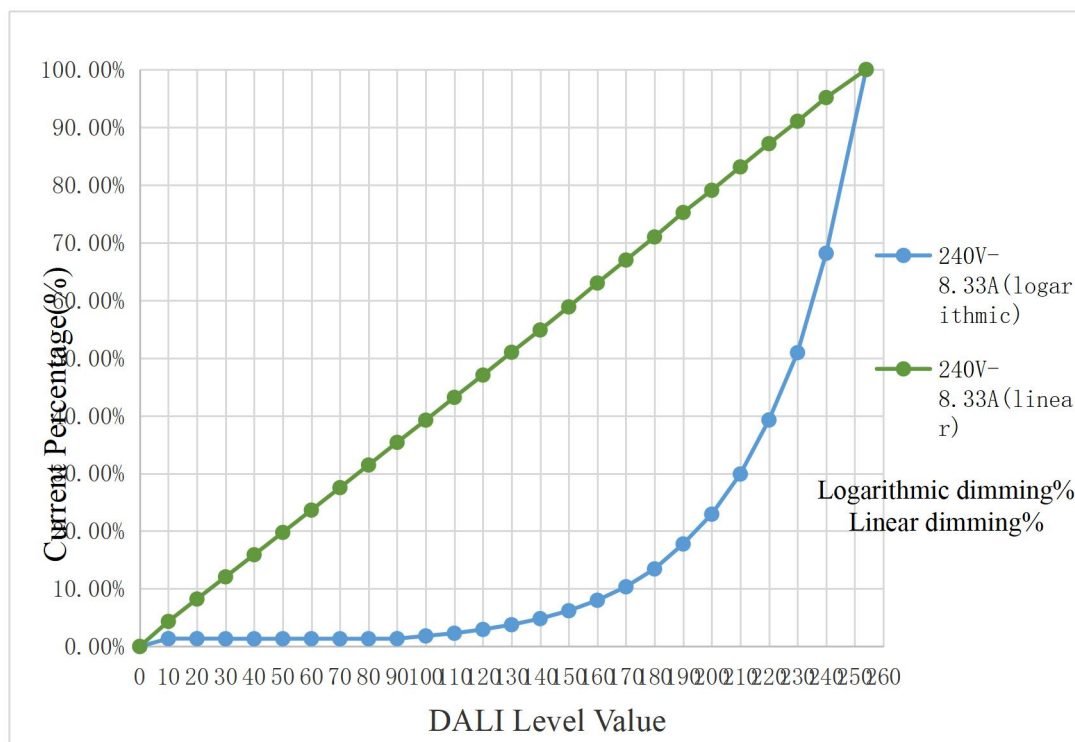
Power Factor Characteristics



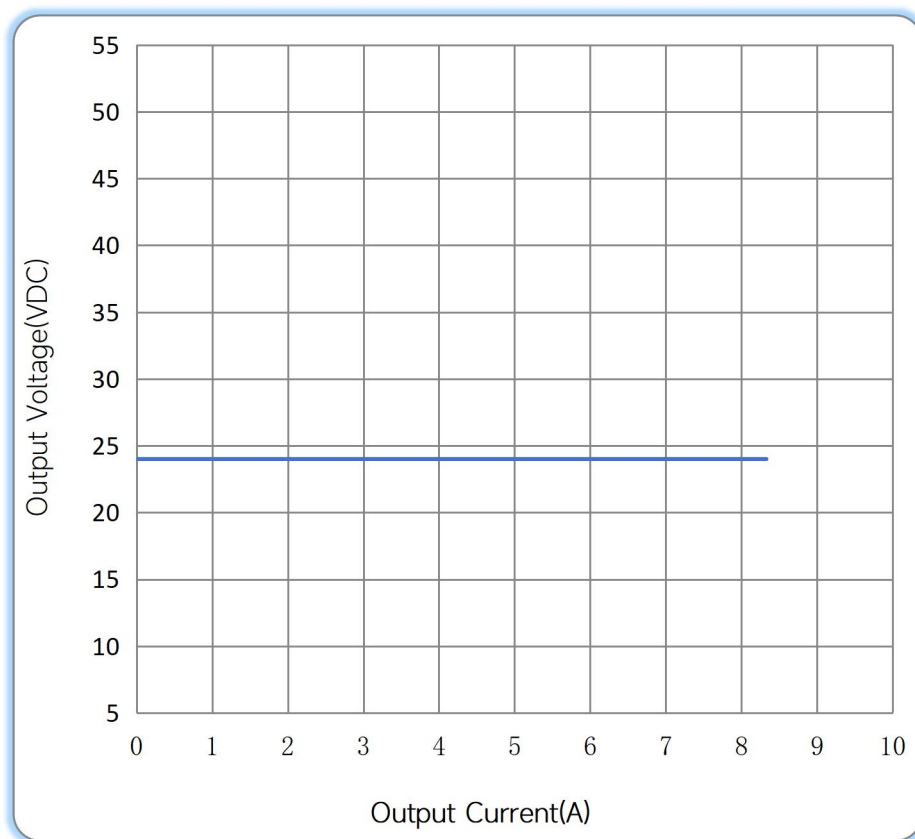
THD vs. Load



◆ Dimming Curve



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/11/15
Dimming current range (DALI-2 & Push)	0~100%	1~100%	B	2025/05/24

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

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EAGLERISE



Manual