

150W Constant Voltage-MS Series

Features

- Class I, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor: ≥0.95 (Typ.)
- Efficiency: ≥91% (Typ.)
- 5 years warranty
- IP65

Applications

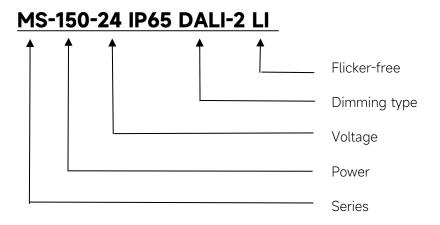
LED strips



◆ Description

MS-150-24 IP65 DALI-2 LI is a 150W constant voltage LED driver that operates from 198-264VAC input with 24V output voltage. With it's compact dimensions range 262*50*30.5 mm. It is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit and over load and over temperature protection.

◆ Model code



Stock code: 002922





◆ Specification

	Constant Voltage	24VDC		
	Current Range	0-6.25A		
	Voltage Accuracy	±5%		
Output	Output HF Voltage ripple(≥1KHz)	±1%		
	Output LF Voltage ripple(≤120Hz)	±1%		
	SVM	≤0.4		
	Pst	<u> </u>		
	Efficiency(Typ.)	≥91%@Full load,230VAC		
	EOFI	15%		
	Rated input voltage	220-240V		
	Range of input voltage	198-264VAC		
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition		
	Range input voltage(VDC)	176-280VDC		
	Frequency(Hz)	0/50/60 Hz		
	Displacement factor	≥0.9		
Input	Power Factor	0.95@Full Load,230VAC		
	Input Current max	0.9A Max@Full Load,198VAC		
	Start-up time	< 0.8S@220-240VAC		
	Start-up time(DC mode)	< 0.6S		
	Switch over time(AC/DC mode)	< 0.4S		
	Standby Power	≤0.5W@DIM TO OFF,@230VAC		
	THD (Typ.)	<10%@220-240VAC, Full load		
	Dimming	YES		
		DALI-2 (IEC 62386-101,102,207,Part 251,252,253)		
5	Dimming mode	&Push Dimming (Corridor Function)		
Dimming	Dimming depth	1%		
	Dimming current range	1-100%		
	dimming frequency	3KHz-20KHz		
Protection		105-150%rated output power		
	Over Load Protection	YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
capability	Surge capability (L-N)	4KV		
	Surge capability (L/N-Ground)	6KV		
	Operating Temperature	-20°C~+60°C		
Environment	Humidity	10%-90%RH		
	Tc	90°C		
	Storage Temperature	-30°C~+85°C		
	Life time	>50000h@Tc=80°C,220-240VAC, full load		

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MS-150-24 IP65 DALI-2 LI

	Noise	≤35dB(A)@30cm		
Surface	Dimension	262 X 50 X 30.5(LXWXH)mm		
Surface	material	metal case		
Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384;GB19510. 1, GB19510. 14;		
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;GB/T17743;GB17625. 1		
	Energy Efficiency	ErP2.0 EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		
DALI performance	RoHS (2011/65/EU) (EU)2015/863 EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part251,252,253), and below are parts implemented in detail. Part251: Bank 1(mandatory):Used to store information about luminaire factory, GTIN, luminaire identification number, production time, input voltage, input power, output voltage & current, CCT, CRI, light distribution type. Part252: Bank 202(mandatory):Used to store active power and active energy of drives. Bank203(optional):Used to store apparent power and apparent energy of drives. Bank204(optional):Used to store active power load side and active energy load side of drivers. Part253: Bank205(mandatory):Control gear diagnostics and maintenance: Control gear operating time, start counter, external supply voltage, external supply voltage frequency, power factor, failure condition counter, external supply undervoltage, external supply undervoltage counter, external supply overvoltage, external supply overvoltage counter, output power limitation, output power limitation counter, output current percent, temperature, thermal shutdown counter. Bank206(mandatory): Light source diagnostics and maintenance: light source start counter, thermal shutdown counter. Bank206(mandatory): Light source diagnostics and maintenance: light source start counter, thermal shutdown counter. Bank207(mandatory): Luminaire maintenance data should be provided by the luminaire manufacturer: rated median useful light source starts.			
Note	 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 DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered. 5.This LED driver complies with the use regulations for IP65(and grade below). However if the actual application is possible to exceed the limit of IP65(such as bury driver in ground, long-term using under water, etc.), then additional protective measures are necessar. You can also consult the driver manufacturer. 			

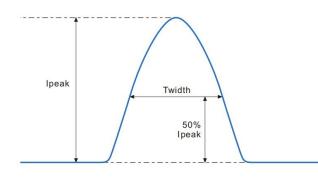
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Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
Α	μs	pcs	pcs	pcs	pcs	pcs	pcs



Remarks:

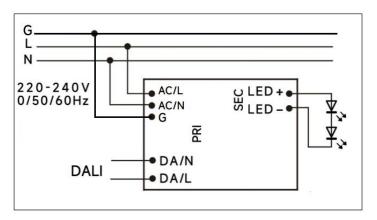
1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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

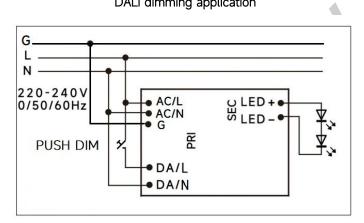
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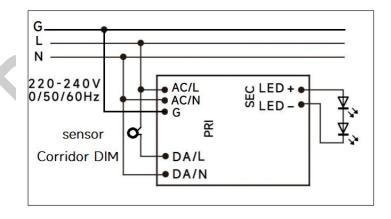
Wiring diagram



DALI dimming application



PushDIM dimming application

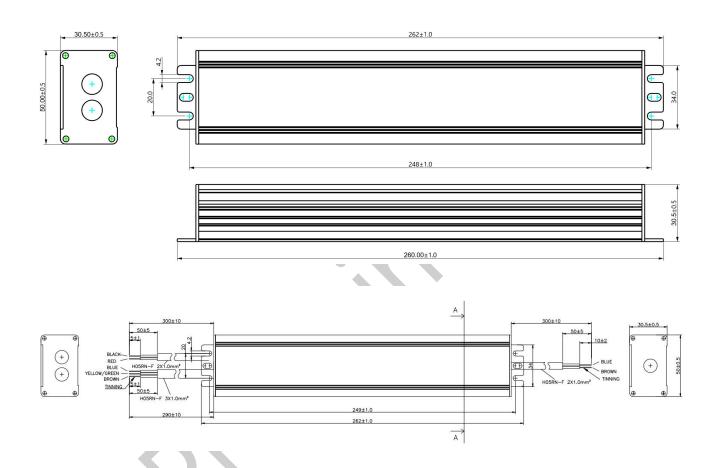


Corridor DIM dimming application

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♦ 2D diagram



TYPE	Total Length	Outside Color	Inside Wires Color	Wire Model/Diameter	
Input wire	0.3M	Black	Black for DA L	H05RN-F/2x1.0mm ² (DALI)	
			Red for DA N		
	0.3M	Black	Brown for L Yellow/Green for PE	H05RN-F/3x1.0mm ² (L/N/PE)	
			Blue for N		
Output wire	0.3M	Black	Brown for +	H05RN-F/2x1.0mm ²	
			Blue for -	TIOONIA TIZZI.OTIIII	

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◆ Curve for MS-150-24 IP65 DALI-2 LI

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load

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Push dimming operation

Action	Action duration	Function		
Short push	<0.5s	Turn on/off		
Short push	<0.5s	LED on: Save current brightness level		
twice	<0.55	LED off: Delete saved level and turn on at 100% brightness		
Short push five	<3s	Quit Corridor mode		
times	\ 35	Quit Corridor mode		
Long push	0.5-14s	Dimming up or down		
Long push	15s-2mins	Sync all LEDs to be 100% brightness		
		Enter Corridor mode - LED keep 100% brightness for 2mins.		
Long push	>2mins	Then brightness will turn to be 10% within 32s if no action during 2mins		
		100% brightness.		

Note:

1. The factory default brightness is at 100%.

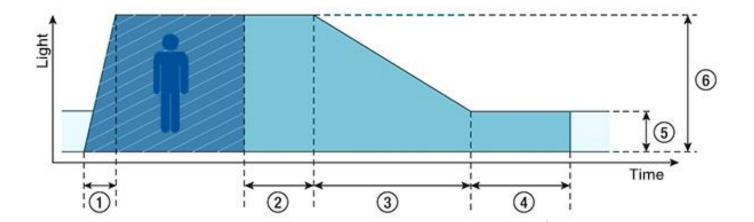
2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button

3. The maximum length of the cable from the push button to the last driver is 200 meters.

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Corridor mode

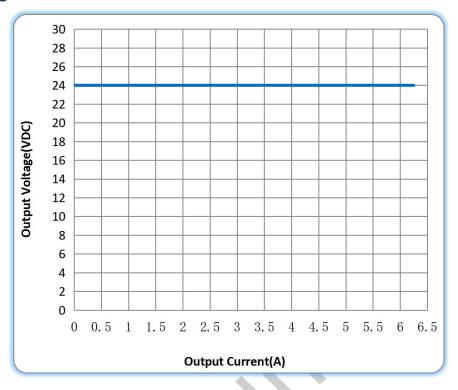


- ①Fade-in time(0.5s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- ②Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- 3Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- **Switch-off delay** (Never Off): the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- **⑤**Absence value(default: 10 %): the luminous intensity when there is no person present.
- **©Presence value (default: 100 %):** the luminous intensity when persons are present.

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◆ Operating window



Operating window 100%

♦ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
First draft			А	2024/01/10

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

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Manual

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