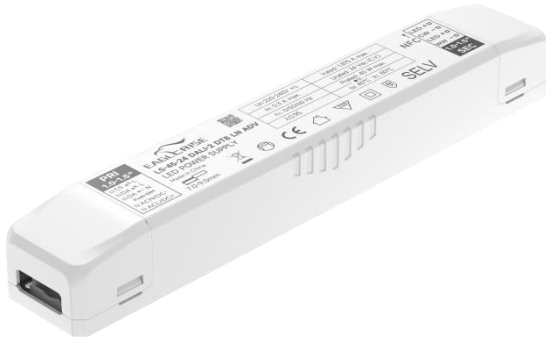


45W DALI-2 DT8/2-channel DALI-2 DT6 + PUSH Dimming power supply



■ Approve



Features

- For luminaires of protection Class II, SELV, Independent
- Input Voltage: 220-240V
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95
- Efficiency: $\geq 89\%$
- EOFI=15%
- 5 years warranty
- Support DT8 & DT6, Push Dimming
- DALI maintainace(Part 251,252,253,209)
- IP20

Applications

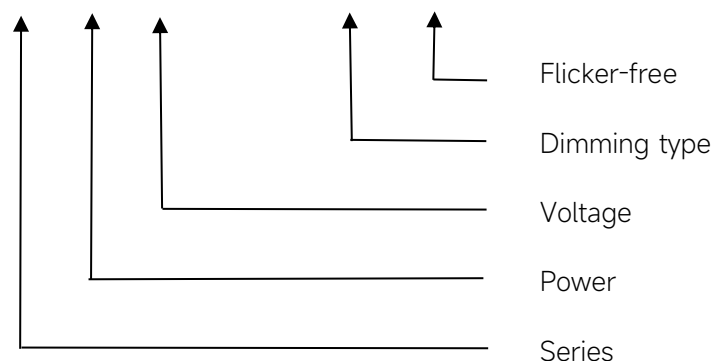
- LED strips

◆ Description

LS-45-24 DALI-2 DT8 LN ADV is a 45W constant voltage LED driver that operates from 198-264Vac input with 24V output voltage. With it's compact dimensions from 277 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,over voltage and over temperature. Support switching between DT8(single address) and DT6(dual address) via NFC software.

◆ Model code

LS-45-24 DALI2-DT8 LN ADV



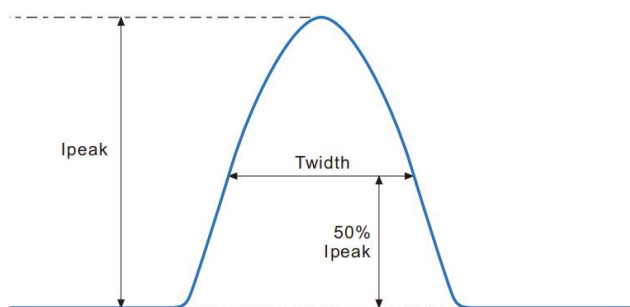
◆ Specification

Output	Constant Voltage	24VDC
	Current Range	0-1.875A
	Voltage Accuracy	±5%
	Output LF current ripple(≤120Hz)	±1%
	SVM	≤0.4@Full Load, 230Vac
	Pst	≤1@Full Load, 230Vac
	Efficiency(Typ.)	≥89%@Full Load, 230Vac
	EOFI	15%
Input	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
	Rated input voltage(DC)	176-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.9@Full Load, 230Vac
	Power Factor	0.95@Full Load, 230Vac
	Input Current max	0.3A MAX
	Start-up time	< 0.8S
	Switch over time(AC/DC mode)	< 0.5S
	No Load Power	≤0.5W
	Standby Power	≤0.5W, @DIM TO OFF, 230Vac
	THD (Typ.)	<10%@Full Load, 230Vac
Dimming	Dimming	YES
	Dimming mode	DALI-2 (IEC 62386-101,102,207,209,251,252,253) & Push Dimming (Corridor Function)
	Dimming depth	1%
	Dimming current range	1-100%
Protection	Over Load Protection	105-150% rated output power YES/Auto Resume
	Over Voltage Protection	> 25.2VDC 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
Withstand voltage	Input-Output	3750V/5mA/60S
	Input-DALI	1500V/5mA/60S
	Output-DALI	1500V/5mA/60S
Environment	Operating Temperature	-20°C~+45°C
	Humidity	20%-90%RH

	Tc	80°C
	Storage Temperature	-25°C~+80°C
	Life time	> 50000h@Tc=80°C
	Noise	≤25dB(A)@20cm
Surface	Dimension	227x38x30(LXWXH)mm
	material	PC
Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384;GB19510. 1, GB19510. 14;S/NZS 61347- 1, AS/NZS 61347-2- 13
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;GB/T17743;GB17625. 1;EN
	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
DALI performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2,including part251,252,253) EN 62386-209(DT8)	
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 & 47uF 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. 4.This LED driver meets the EMI specifications above, but EMI performance of a lighting fixture also depends on the other devices on the fixture.	

◆ Inrush Current

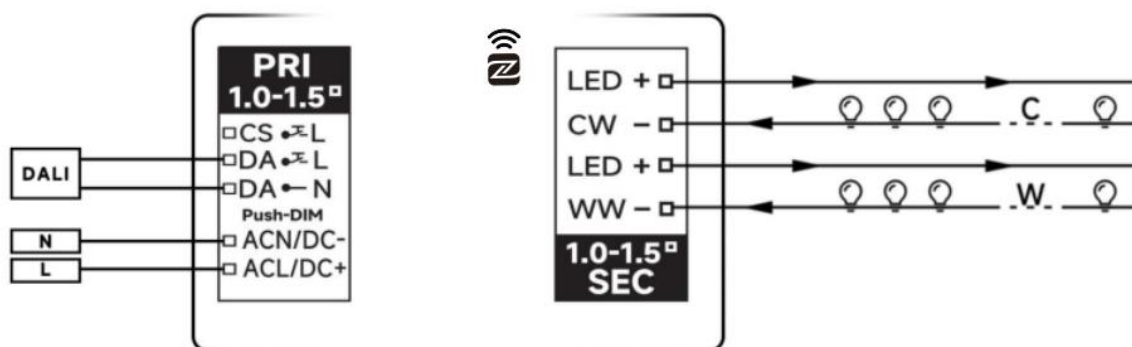
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
25A	242μs	13pcs	21pcs	26pcs	22pcs	35pcs	44pcs



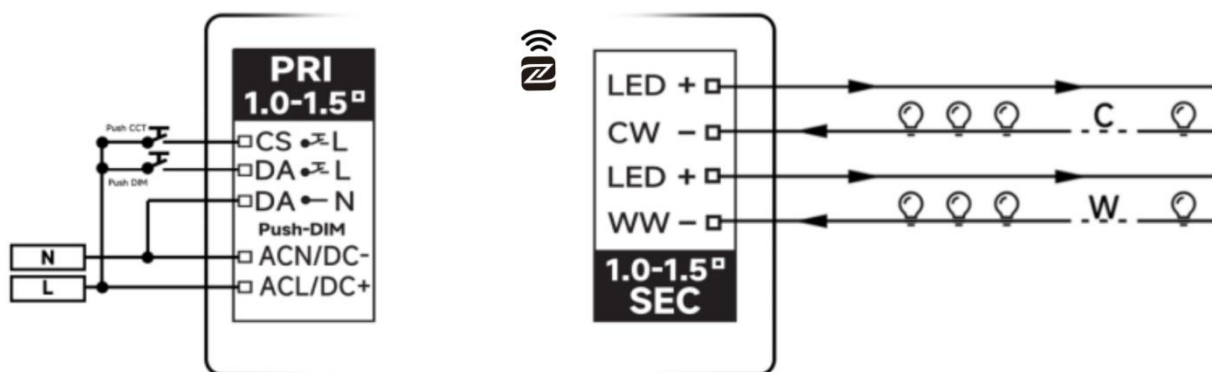
Remarks:

- 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

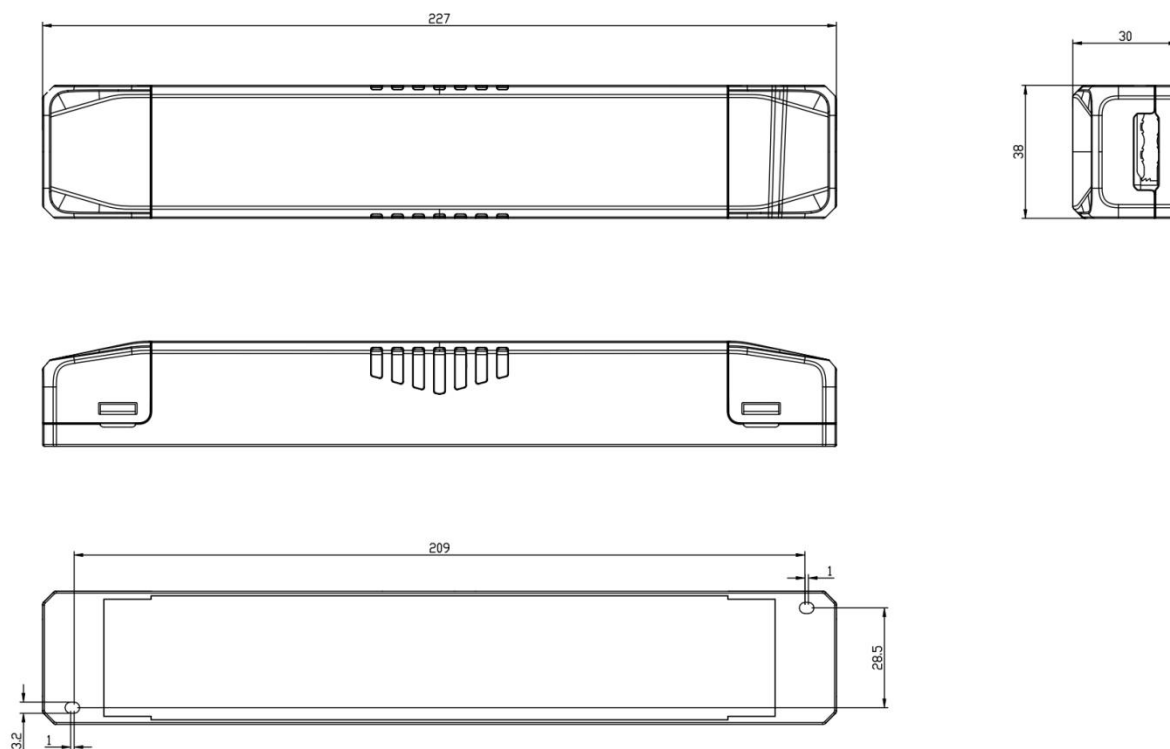


DALI Connection

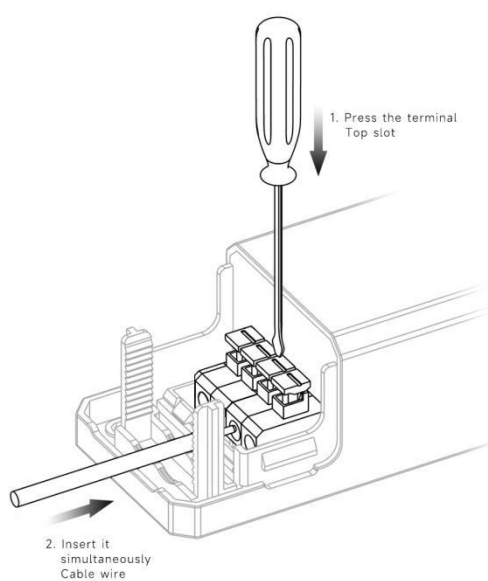


push DIM/CCT Connection

◆ 2D diagram



Terminal



◆ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...2.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Recommended wire

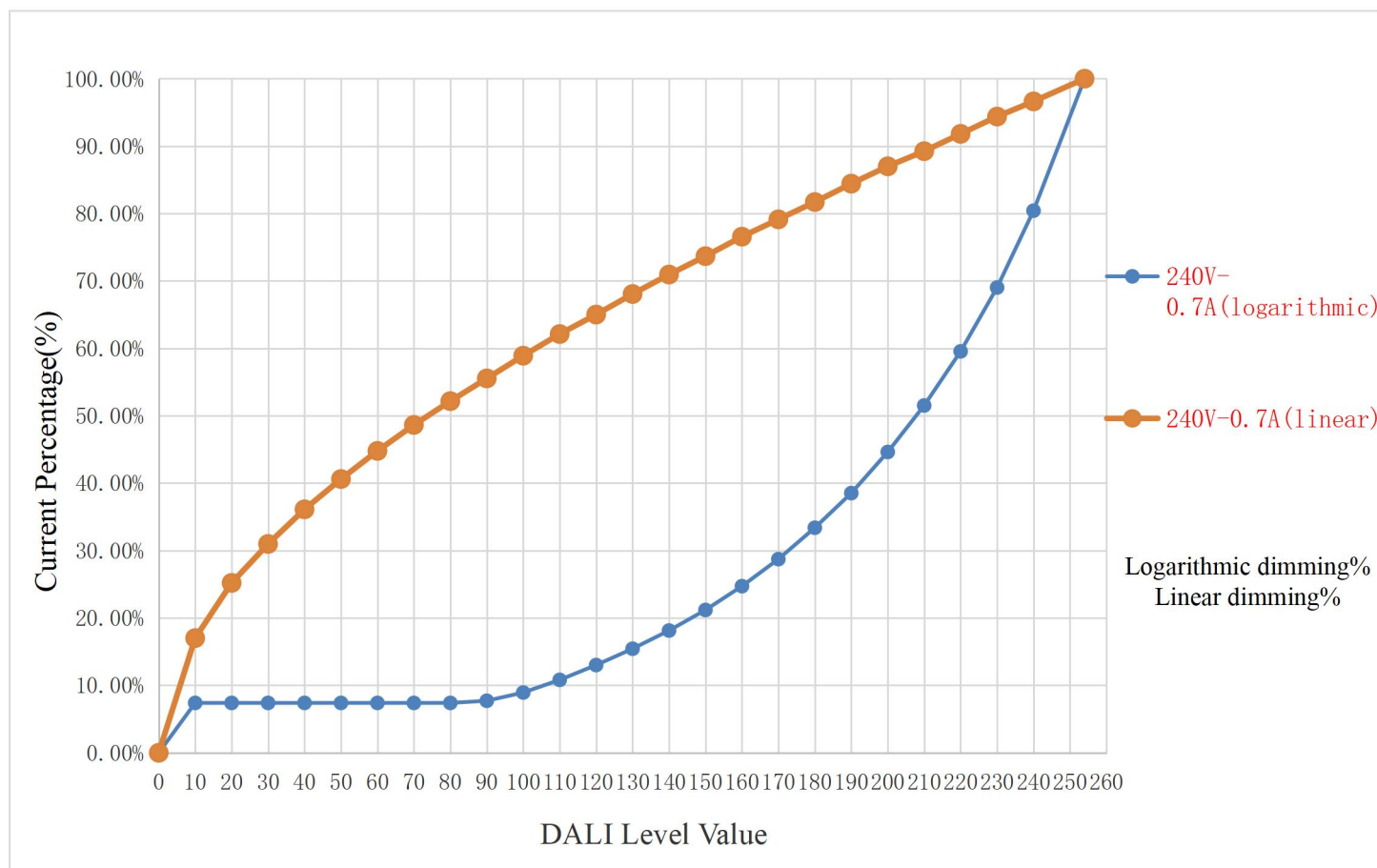
Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

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

◆ Packaging

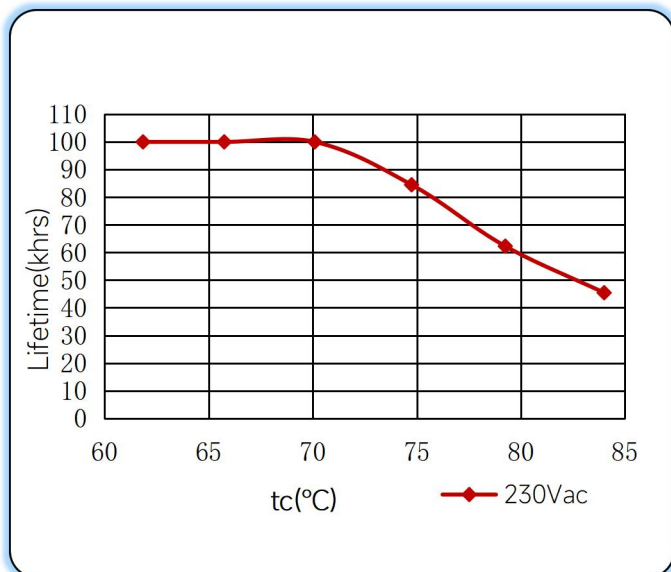
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-45-24 DALI-2 DT8 LN ADV	227X38X30mm	0.155Kg	380x230x180mm	40	6.2	6.7

◆ Dimming curve

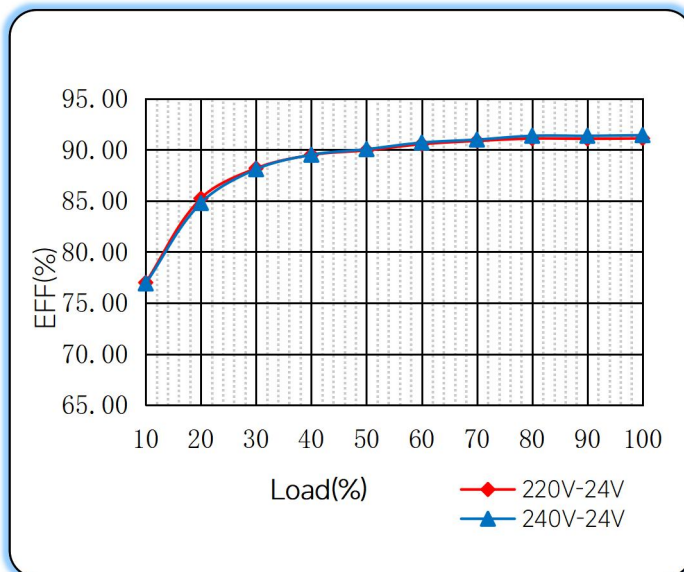


◆ Curve for LS-45-24 DALI-2 DT8 LN ADV

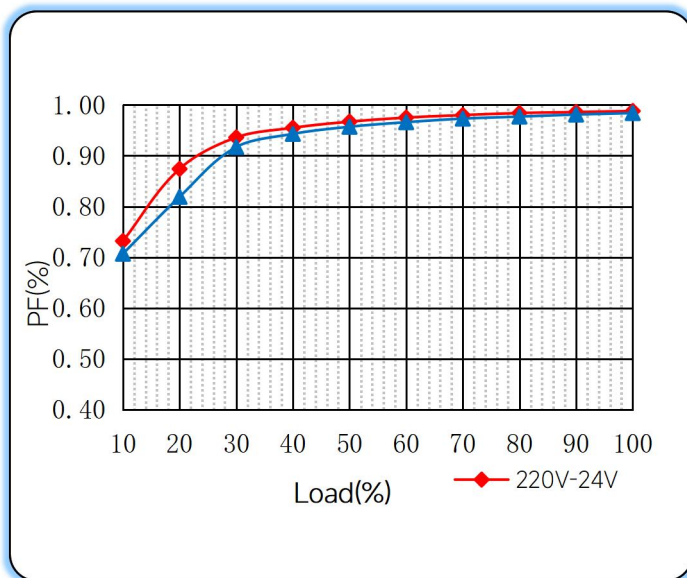
Lifetime vs. Temperature Curve



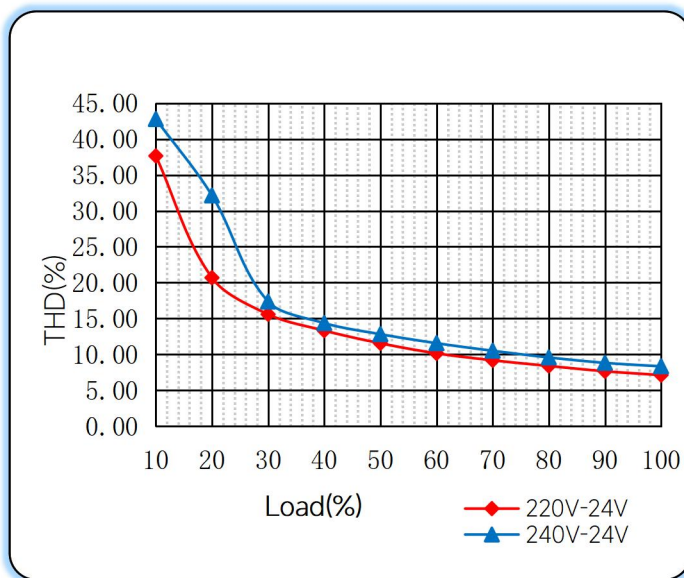
Efficiency vs. Load



Power Factor Characteristics



THD vs. Load



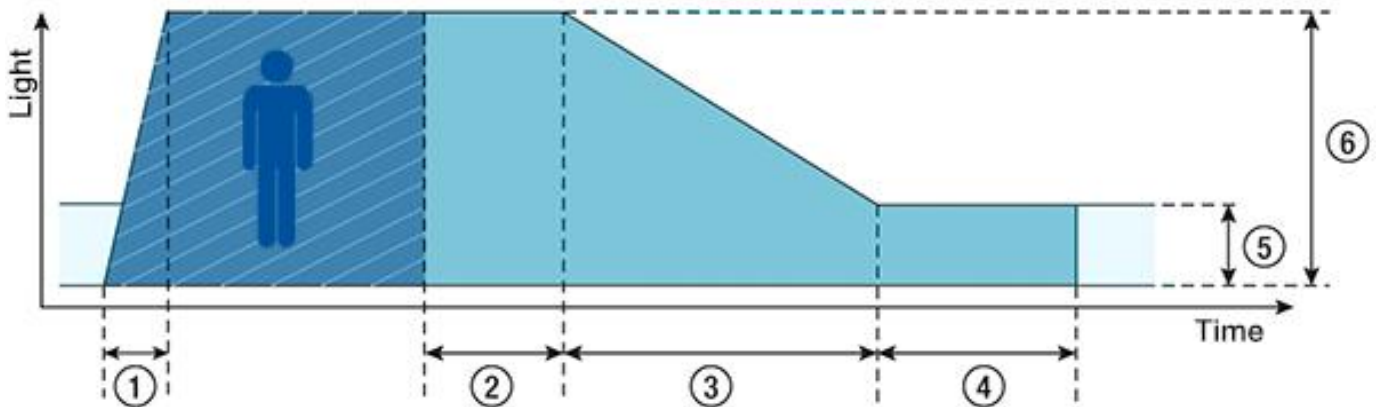
◆ Push dimming operation

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

Note:

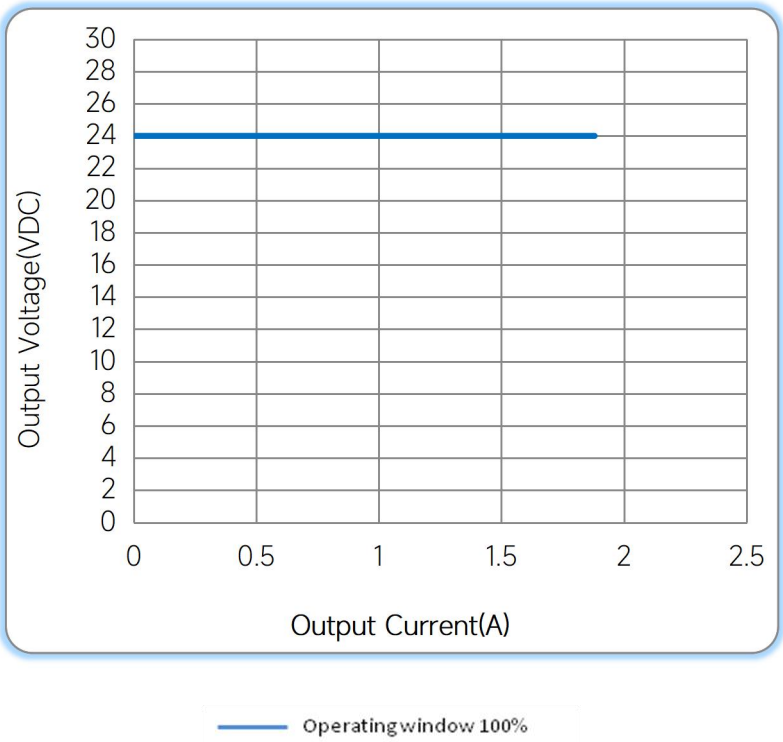
- 1.The factory default brightness is at 100%.
- 2.Up to 30 drivers can perform the PUSH dimming at the same time when utilizing one common push button
- 3.The maximum length of the cable from the push button to the last driver is 200 meters.

◆ Corridor mode



- ◆ ① **Fade-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.
- ◆ ② **Run-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.
- ◆ ③ **Fade time(32s)**: the time during which the luminous intensity is faded from the presence value to the absence value.
- ◆ ④ **Switch-off delay (level=10%.Non-configurable)**: 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.
- ◆ ⑥ **Presence value (default: 100 %)**: the luminous intensity when persons are present.

◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2026/01/19
Switch over time(AC/DC mode)	< 0.4S	< 0.5S	B	2026/05/18

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Manual