



LV(100-150)W24-DALI-NX

Constant Voltage Dimmable Driver

Model: LV(100-150)W24-DALI-NX



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
LV100W24-DALI-NX	158780	1.25-4.20A	0.55A	≤112W	30.00-100.80W	≥0.95	91%	24V	24V
LV150W24-DALI-NX	158800	1.87-6.25A	0.80A	≤165W	45.00-150.00W	≥0.95	92%	24V	

*** Test result @230V, 50Hz, Full Load.**

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	Frequency	50/60Hz
	Input Current	≤0.55A (230VAC, full load)@100W
		≤0.8A (230VAC, full load)@150W
	Input Power	≤112W (230VAC, full load)@100W
		≤165W (230VAC, full load)@150W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤ 10% (230VAC, full load)
	No-load Power Consumption	≤1.0W @230VAC (DIM to off)
Output	Inrush Current	≤50A/300μs (230VAC, full load)@100W
		≤70A/100μs (230VAC, full load)@150W
	Output Voltage	24VDC ± 5%
	No Load Voltage	24VDC ± 5%
	Output Current	1.25A - 4.2A (Max.output)@100W
		1.87A - 6.25A (Max.output)@150W
	Max. Output Power	100.8W @100W
		150W @150W
	Efficiency	≥91%(230VAC, full load)@100W
		≥92%(230VAC, full load)@150W
	Output Voltage Ripple(<120 Hz)	<480mV _{PK-PK} (1%)
	Line Regulation	± 1%

	Load Regulation	$\pm 2\%$
	PstLM	≤ 1
	SVM	≤ 0.4
	Current Accuracy	N/A
	Started Delay Time	$\leq 1\text{S}$ (230VAC, full load)
Control Method	PUSH dimming terminal	PUSH dimming terminal (Max.lead wire length:20m,same port of DALI)
	PUSH-button	Max parallel connections qty for Push-dim 64PCS.
	DALI function	DALI dimming (Max.lead wire length:300m) logarithm or linear dimming curve select able DALI-2 certified incl.Parts 251 ,252 ,253 ,CLO
	Dimming range	DALI dimming:1%-100%(1KHz),Dim to off
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	Over Current Protection	Auto Recovery
	Over Temperature Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	$>100\text{M ohm @ } 500\text{VDC}$
	Leakage current	I/P to O/P $<0.7\text{mA}$
Environment	Ta/Operation Temperature	$-25 \dots +50^{\circ}\text{C}$;
	Ts/Storage Temperature	$-25 \dots +85^{\circ}\text{C}$
	Tc/Enclosure Temperature	85°C
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-2.5□/8-9mm
	SEC Wire preparation	0.75-2.5□/8-9mm
	DALI Wire preparation	0.75-2.5□/8-9mm
	Dimension	280*30*21mm (L*W*H) @100W
		360*30*21mm (L*W*H) @150W
Standards	Certification	CE/EAC
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13 :2014/A1:2017 EN IEC 62384:2020 EN 62493:2015/A1:2022
	EMC Standards	EN IEC 55015 :2019 EN IEC 55015 :2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN IEC 61547:2023
	Performance	EN62384:2020
	Surge	L-N/1KV (L/N)-PE/2KV
Others	RoHS	2011/65/EU

	REACH	EU Regulation (EC)No 1907/2006
	Life Time	50000h @Ta max/Tc max
	Warranty	5years , F.R. <10000ppm
	Noise	≤22dB @Background noise ≤15dB ,Interval≥20cm

Remark:

- 1.All Parameters ,if not specified,are measured at 230VAC/50Hz and 25°C ambient temperature.
2. LED Driver is a component of the luminaires ,Luminaires and wire layout will affect the EMC,please check the EMC with end products again.
3. During the PUSH DIM test,the number of parallel connections must be less than 64 PCS
4. Do not install upside down.

2. Connected quantities of different current Breaker

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TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current(A)	Time (μs)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B	12	16	19	24	30		@230VAC	50	300
TYPE C	19	25	31	38	48				
TYPE D	31	40	49	61	77				

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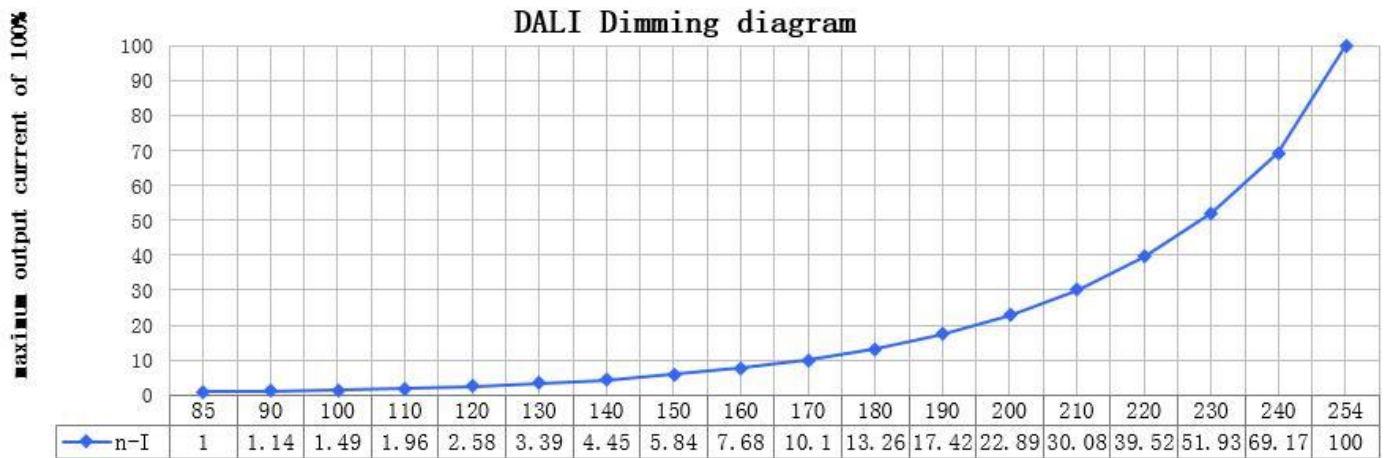
TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current(A)	Time (μs)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B	9	11	14	17	21		@230VAC	70	100
TYPE C	14	18	22	27	34				
TYPE D	22	29	35	44	55				

3. Label

☐ L ☐ N ☒ PRZ ☐ L ☐ N ☐ N	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Dimmable Driver LV100W24-DALI-NX 158780 Constant Voltage Type For LED modules only	INPUT:220-240V Input Frequency:50/60Hz Power Factor(λ): ≥0.9 I in: ≤0.55A	U rated=24VDC I range:1.25-4.2A Prange:30-100.8W tc:85°C ta:-25...+50°C	EMC CE SELV 	SEC - ☐ SEC + ☐ Uo 

☐ L ☐ N ☒ PRZ ☐ L ☐ N ☐ N	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Dimmable Driver LV150W24-DALI-NX 158880 Constant Voltage Type For LED modules only	INPUT:220-240V Input Frequency:50/60Hz Power Factor(λ): ≥0.95 I in: ≤0.80A	U rated=24VDC I range:1.87-6.25A Prange:45-150W tc:85°C ta:-25...+50°C	•tc EMC CE SELV 	SEC - ☐ SEC + ☐ Uo 

4. DALI dimming curve



5. Electrical values

LV100W24-DALI-NX

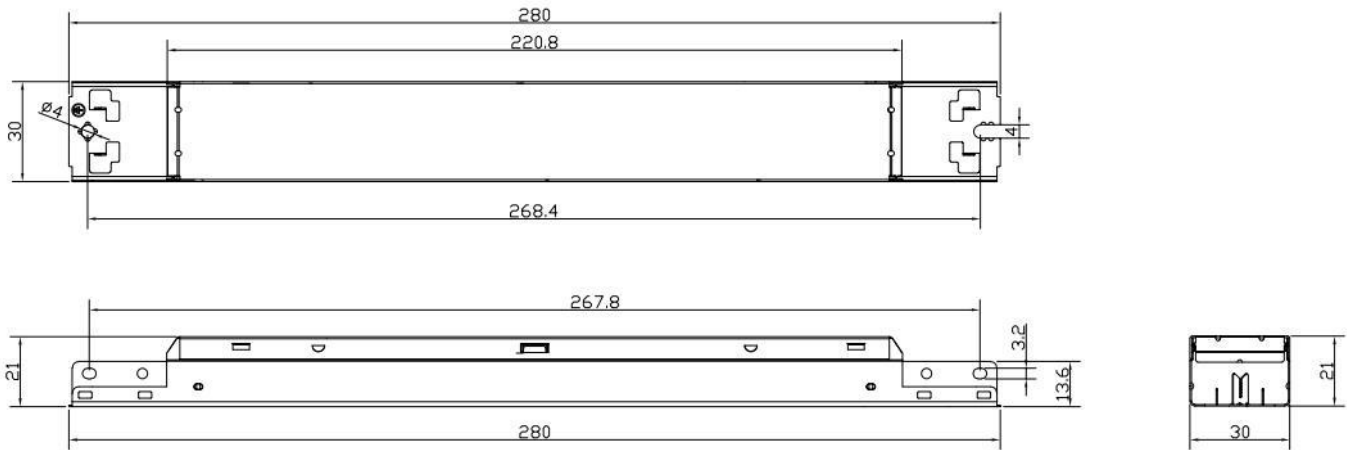
Lifetime vs. Case Temperature	PF vs. Load
TBD.	TBD.
THD vs. Load	Efficiency vs. Load
TBD.	TBD.

LV150W24-DALI-NX

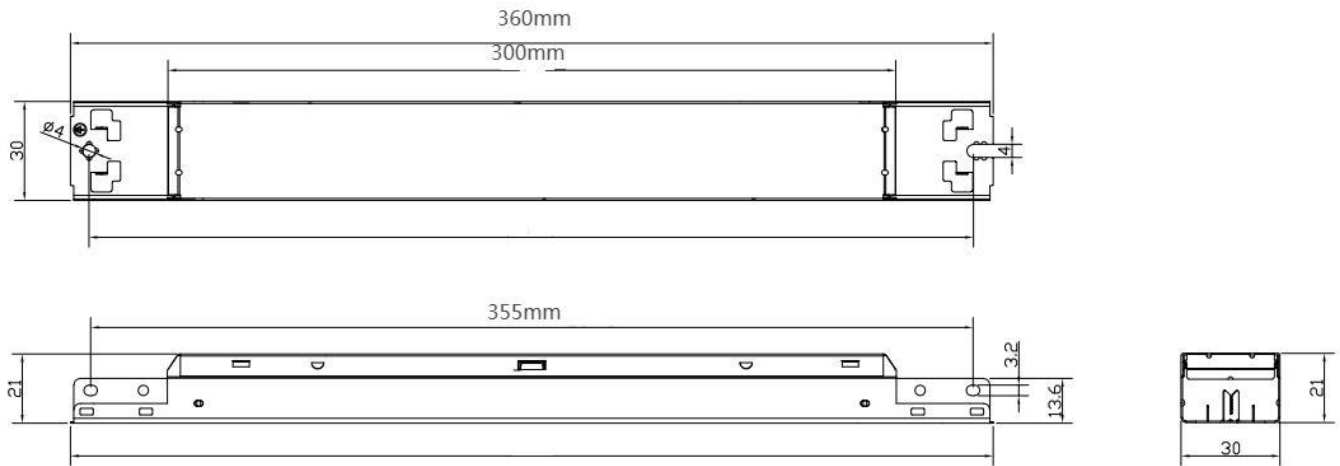
Lifetime vs. Case Temperature	PF vs. Load
TBD.	TBD.
THD vs. Load	Efficiency vs. Load
TBD.	TBD.

6. Dimension (Unit: mm)

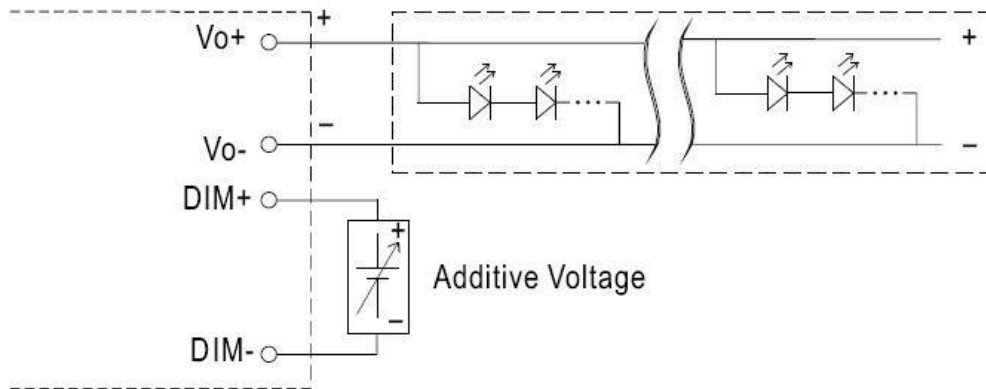
LV100W24-DALI-NX



LV150W24-DALI-NX



7. Wiring Diagram



- 1.The factory default brightness is at 100%.
- 2.Up to 64 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

8. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
Industrial	LV100W24-DALI-NX	345*310*158	50	0.235	11.75	12.25
Industrial	LV150W24-DALI-NX	390*260*175	45	0.300	13.50	14.00

9. Ordering data

Model No	Item code
LV100W24-DALI-NX	158780
LV150W24-DALI-NX	158800

10. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 0.5 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

11. Replace LED module

- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

12. Functions

12.1 OEM Identification

The OEM (Original Equipment Manufacturer) can set his own identification number.

DALI Part 251: Memory bank 1 extension.

12.2 OEM GTIN

The Original Equipment Manufacturer (OEM) can set his own Global Trade Item Number (GTIN).

DALI Part 251: Memory bank 1 extension.

12.3 Luminaire data

This function provides the asset management with accurate data about the luminaire.

DALI Part 251: Memory bank 1 extension.

DALI Part 253: Luminaire maintenance data.

12.4 LED current

The LED output current must be adapted to the connected LED module.

The value is limited by the current range of the respective device.

The output current of the LED driver can be adjusted in a certain range.

Adjustment is done by KGP Configurator via NFC.

More functions:

Action	Action duration	Function
Short push	<0.6s	Turn on/off
Short push five Times	<3s	Quit Corridor mode
Long push	0.6-3s	Dimming up or down
Long push	10s	Sync all LEDs to be 50% brightness, and the dimming rate is changed to 3S
Long push	20s	Dimming rate is changed to 6S
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins.

12.5 Switch DIM

Integrated Switch DIM function allows a direct connection of a push button for dimming and switching. Brief push (< 0.6 s) switches LED driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the push button is held, LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction.

In installations with LED drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED drivers can be synchronized to 50 % dimming level by a 10 s push.

Use of push button with indicator lamp is not permitted.

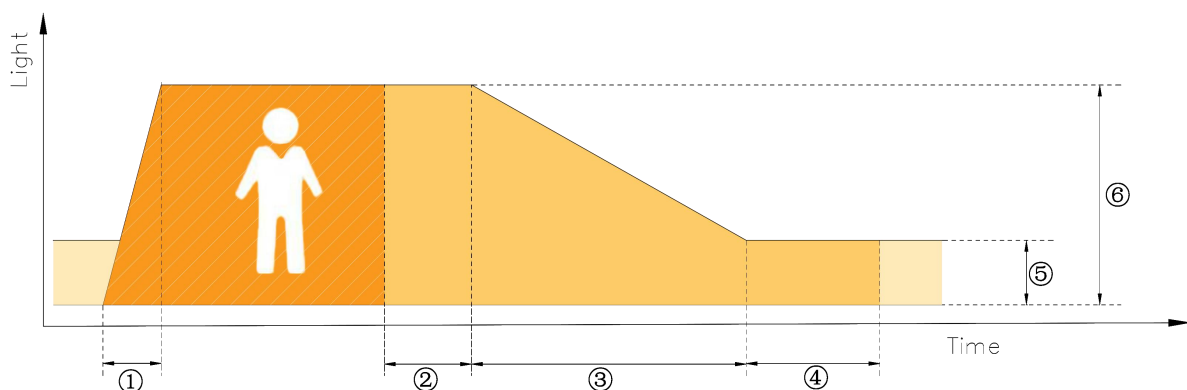
12.6 Corridor FUNCTION

With the Corridor FUNCTION and a commercially available motion detector, it is easy to adapt the lighting in one area to its use.

That is, when the area is entered by a person, the lighting dims instantly to the desired brightness and is available in full strength.

After the area is left by the person, the brightness dims slowly to a smaller value or switches off completely.

The individual parameters of the desired profile, such as brightness values or delay times, can be adjusted flexibly and individually.



- ① Fade-in time(1s): 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 (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.
- ⑥ Presence value (default: 100 %): the luminous intensity when persons are present.

12.7 Constant Light Output (CLO)

With this function the light output of the LED module can be kept equal over the lifetime.

The light output of an LED module reduces over the course of its lifetime.

The Constant Light Output (CLO) function compensates for this natural decline by constantly increasing the output current of the LED driver throughout its lifetime.

CLO shall be achieved by limitation of the LED current at the commissioning of the LED driver and providing a linear interpolation of the current over the time, depending on the data points given by the user.

The user has to insert up to eight pairs of data (time, level).

The output curve is the result of connecting the user data points linear.

Detailed description for CLO see product manual.

The minimal CLO starting point is limited by the smallest output current of the LED driver.

12.8 Dimming curve

DALI: The desired dimming behaviour is selected via two different dimming curves (logarithmic or linear).

The default setting of the dimming behaviour is logarithmic.

13. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release