NEXIVO
by KGP Electronics GmbH

LV250W24CG-DALI-NX

Constant Voltage Dimmable Driver

Model:LV250W24CG-DALI-NX



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage
LV250W24CG-DALI-NX	158630	2083-10416mA	≤1.55A	268.00W	50.00-250.00W	≥0.95	93%	24V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	PMW (DALI-2)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	N/A
	Input Current	≤1.55A max
	Input Power	≤268.00W max
	Power Factor	≥0.95 (230VAC，full load)
	THD	≤7% (230VAC，full load)
	Standby Power Consumption	≤0.5W @230VAC (DALI system DIM to off)
	Inrush Current	≤76A/310us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	2pcs/type A ; 4pcs/type B ;6pcs/type C 3pcs/type A ;5pcs/type B ;8pcs/type C 4pcs/type A ;6pcs/type B ;10pcs/type C 5pcs/type A ;8pcs/type B ;13pcs/type C

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Output	Output Voltage	24VDC+5%	
	No Load Voltage	24VDC+5%	
	Line Regulation	±1%	
	Load Regulation	±2%	
	Overshoot	<105%Vo	
	Output Voltage Ripple	<240mVPK-PK (0.5%)	
	Start-up Time	Start-up time <0.5s @ power switch on without DALI control. Start-up time <1s @ DALI system on.	
	Hold-up time(mS)	16.2	(230VAC,LED Rated Load,Hold-up time measure from AC input turn-off to output voltage drop to 90%, turn-off time measure from AC input turn-off to output voltage drop to 90%
	Turn-off time(mS)	676	
	Efficiency	≥92% typ.	230VAC, Rated Load, at output terminals
		93% max.	
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length：20m, same port of DALI）	
	PUSH-button	Max parallel connections qty for Push-dim 15	
	DALI function	DALI dimming (Max. lead wire length：300m） logarithm or linear dimming curve selectable	
	Dimming range	DALI dimming: 0.1%-100%	
Protection	Short Circuit Protection	Auto Recovery	
	Over Current Protection	120%-180%Io, Auto Recovery	
	Over Voltage Protection	110%-150%Vo, Auto Recovery	
	Insulation voltage	I/P to O/P,3KVac/5mA/1min	
	Insulation resistance	>100M ohm @ 500VDC	
	Leakage current	I/P to O/P < 250μA	
Environment	Ta/Operation Temperature	-25….+45℃	
	Ts/Storage Temperature	-25….+90℃	
	Tc/Enclosure Temperature	90℃	
	Humidity	5%85%RH	
	Atmosphere	86-108KPa	
Construction	Connection Method	Push-in Terminal	
	Installation	Independent	
	Output Cable Length	Max. 3M	
	Input Wire preparation	0.75-1.5□ / 8-9mm	
	Output Wire preparation	1-2.5□/ 8-9mm	
	DALI Wire preparation	0.75-1.5□ / 8-9mm	
	SEC Wire preparation	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters) (the length required by the standard). If there are any data differences, please test according to the length required by the standard)	
	Dimension	400*40*22mm (L*W*H)	

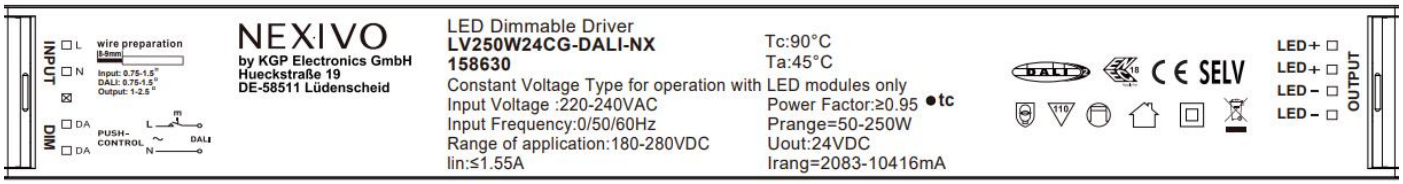
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Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN62384
	DALI Performance	EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2, including part 251, 252, 253)
	Surge	L-N:2kV
Others	RoHS	Complied to 2011/65/EU
	MTBF	≥250KHours,Ta=25℃(MIL-HDBK-217F)
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	Warranty	5years ， F.R. < 10000ppm

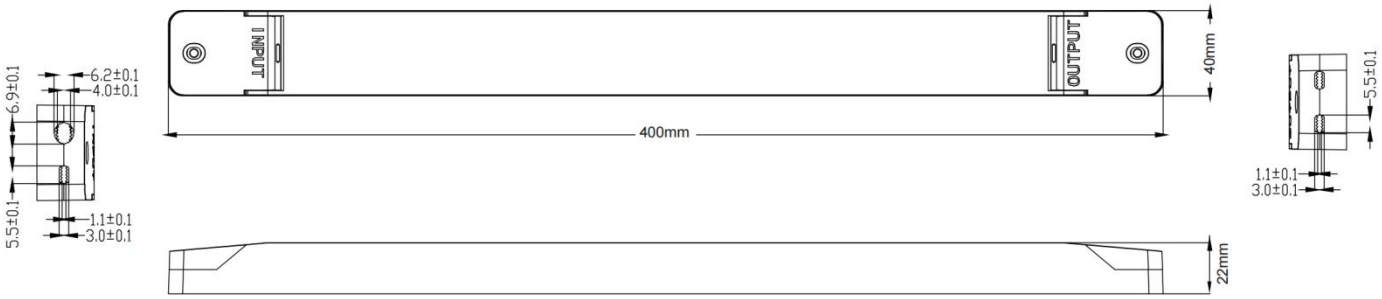
Remark:
1.All Parameters,if not specified,are measured at 230VAC/50Hz and 25℃ ambient temperature.
2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
3.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.
4.Output wire lenght up to 50m.

Distance	15m	30m	50m
Cable selection	0.5mm²	0.75mm²	1.0mm²

2. Label



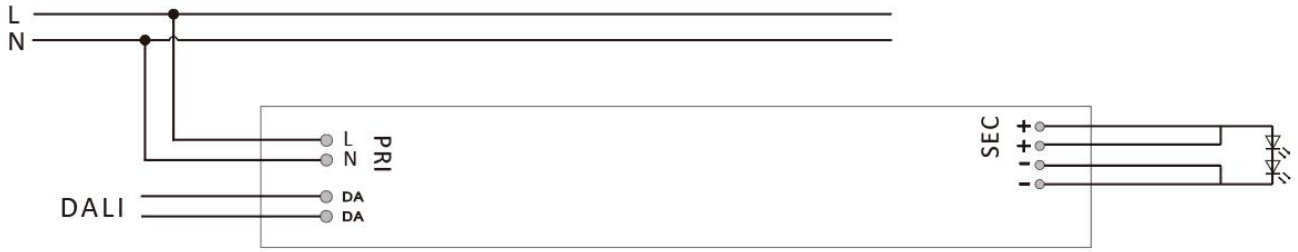
3. Dimension（Unit：mm）



4. Wiring Diagram

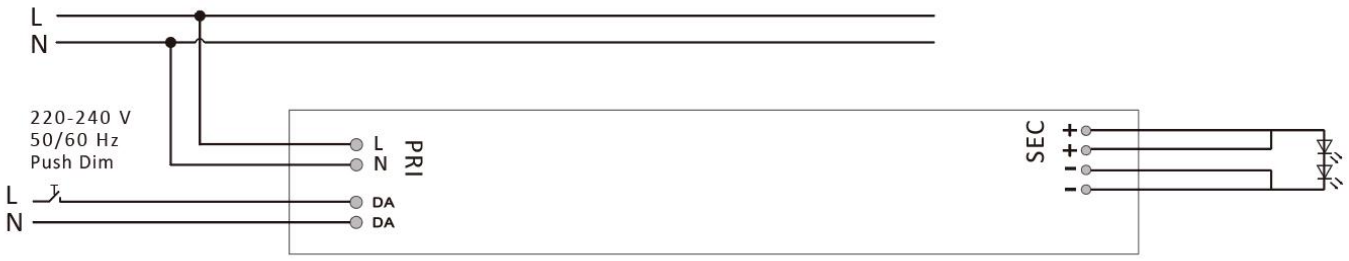
Circuit diagram

220-240 V
0/50/60 Hz



Push Dimming

220-240 V
0/50/60 Hz



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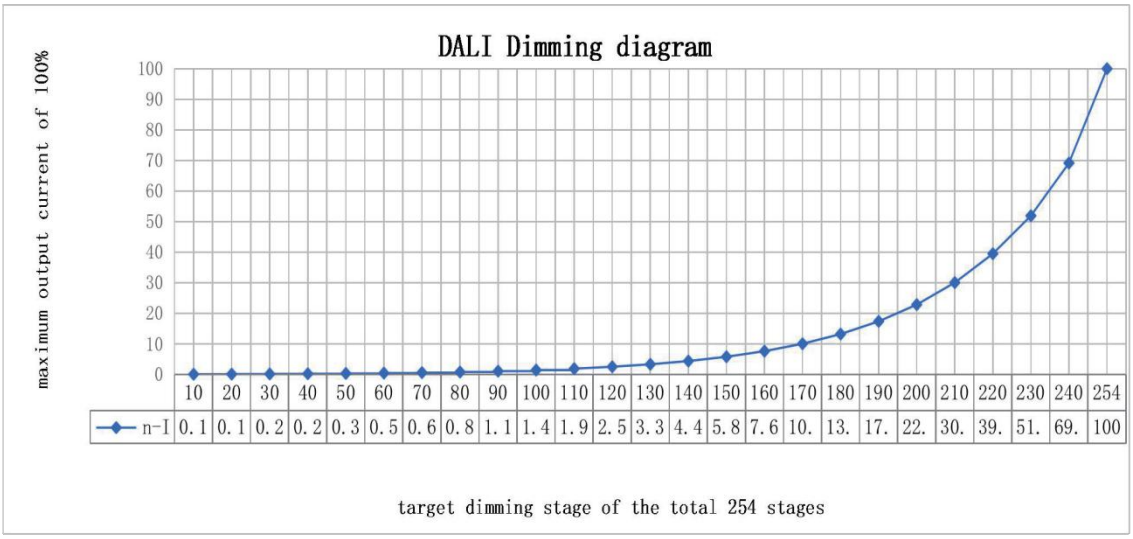
5. DALI dimming curve

formula for DALI dimming.

X(n)=10^{[(n-1)/(253/3)]-1},

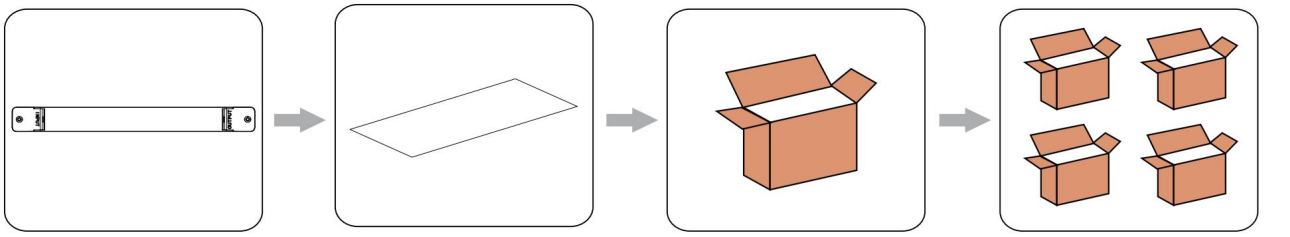
Here,n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	254
n-I	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.1	1.4	1.9	2.5	3.3	4.4	5.8	7.6	10.	13.	17.	22.	30.	39.	51.	69.	100

6. Packing information



Product | Kraft linerboard /Plastic paper | 20 per small box | 20sets/box*4boxs=80pcs/Carton

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

7. Ordering Data

Model No	Item code
LV250W24CG-DALI-NX	158630

8. Constant light output (CLO)

https://www.kdocs.cn/l/cbWalbA1eiBv

9. Push Dim :

9.1 On / off:
Short push (120ms-600ms) on the switch
Stepless dimming: long push (> 0.6sec) on the switch

9.2 Power-on memory function
When the LED driver is powered on, it will restore the memory before the LED driver is poweredoff. (brightness remembers the brightness after the last dimming is stable, and the bright ness during dimming is not memorized)

9.3 Light on/off
If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600mS.

9.4 PUSH Dimming
Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time.After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-onis the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

9.5 Forced synchronization
Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

9.6 PUSH Dimming rate
Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S.

10. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.27.06	V0.02	Add the logo for applying for ENEC certification
2026.28.07	V0.03	Label，update images，Wiring Diagram