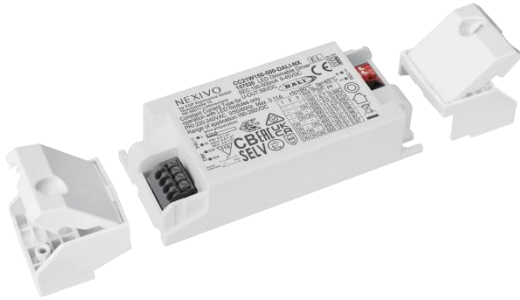




Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
C21W150-500-DALI-NX	157520	150mA	0.05A	8.40W	1.40-6.80W	0.88	80%	9-45V	59V Max.
		200mA	0.06A	10.80W	1.80-9.00W	0.91	83%		
		250mA	0.07A	13.20W	2.30-11.30W	0.93	85%		
		300mA	0.08A	15.60W	2.70-13.50W	0.95	86%		
		350mA	0.09A	18.10W	3.20-15.80W	0.96	87%		
		400mA	0.10A	20.60W	3.60-18.00W	0.96	87%		
		450mA	0.11A	23.00W	4.10-20.30W	0.97	88%		
		500mA	0.11A	23.80W	4.50-21.00W	0.97	88%	9-42V	

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

1. Parameters

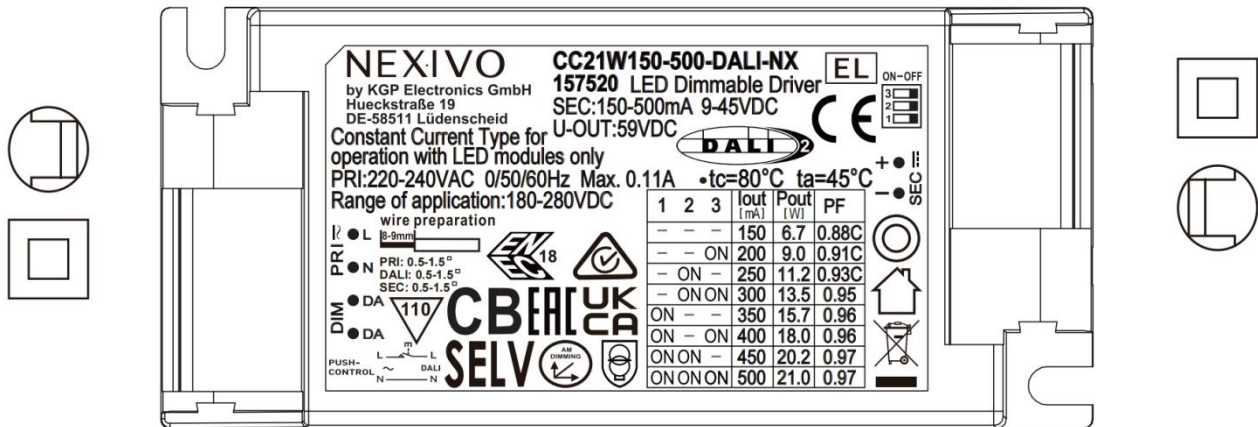
Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Amplitude (DALI-2)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.11A
	Input Power	≤23.80W
	Power Factor	≥0.97 (230VAC , full load)
	THD	≤ 6% (230VAC , full load)
	Standby Power Consumption	≤0.45W Dim to off, 230VAC
	Inrush Current	≤7.9A/21us (230VAC, full load)

	Connected quantity of 10A Breaker	24pcs/type A ; 39pcs/type B ; 63pcs/type C
	Connected quantity of 13A Breaker	32pcs/type A; 51pcs/type B ; 82pcs/type C
	Connected quantity of 16A Breaker	39pcs/type A; 63pcs/type B ; 101pcs/type C
	Connected quantity of 20A Breaker	49pcs/type A; 79pcs/type B ; 126pcs/type C
Output	Output Voltage Range	9-45VDC@150-450mA 9-42VDC@500mA
	No Load Voltage	59VDC Max.
	Output Current	150-500mA (Factory set current of 150mA)
	Max. Output Power	21W
	Efficiency	≥88% 230VAC, full load
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
	Starting Time (AC mode)	≤0.8S (230VAC, full load, by DALI system)
	Starting Time (DC mode)	≤0.4S
	Switching over time (AC/DC)	≤0.4S
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:1%-100%
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	<700μA,I/P to O/P @230V input
Environment	Ta/Operation Temperature	-20....+45℃
	Ts/Storage Temperature	-20....+80℃
	Tc/Enclosure Temperature	80℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in & Independent
	PRI Wire preparation	0.5-1.5□/ 8-9mm
	SEC Wire preparation	0.5-1.5□/ 8-9mm
	DALI Wire preparation	0.5-1.5□/ 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	97.5*44*23mm (L*W*H)

Standards	Certification	CE/ENEC/SAA/UKCA/EAC/CB
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016;
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019;
	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-Ground:2kV; L-N:1kV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h Tc=90°C
		75000h Tc=85°C
		100000h Tc=80°C
	Warranty	5years , F.R. < 10000ppm
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.Please make sure Tc under Lifetime condition when long term operate under DC input. 4.DC emergency (DCemDim):Default 15%, EOFx range = 1 .. 100% (EOFx = DCemDIM level) 5.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.		

Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. Label

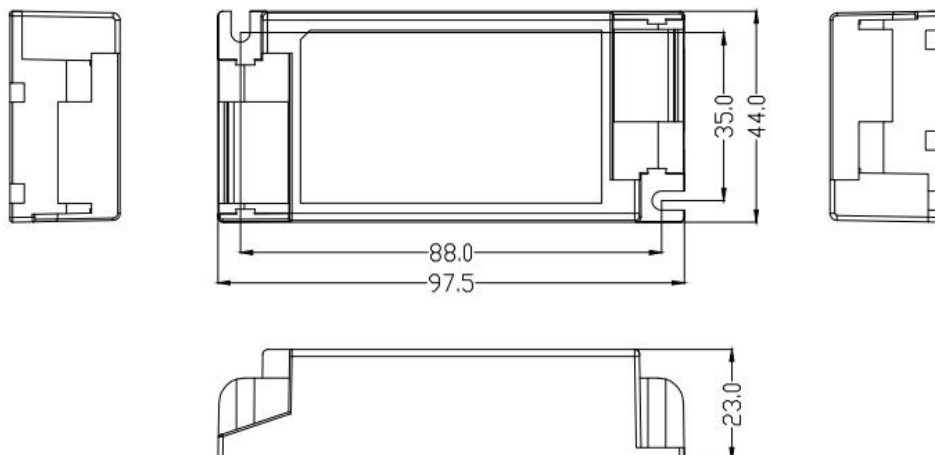


3. Output current setting

Output Current	1	2	3
150mA	-	-	-
200mA	-	-	ON
250mA	-	ON	-
300mA	-	ON	ON
350mA	ON	-	-
400mA	ON	-	ON
450mA	ON	ON	-
500mA	ON	ON	ON

4. Dimension (Unit: mm)

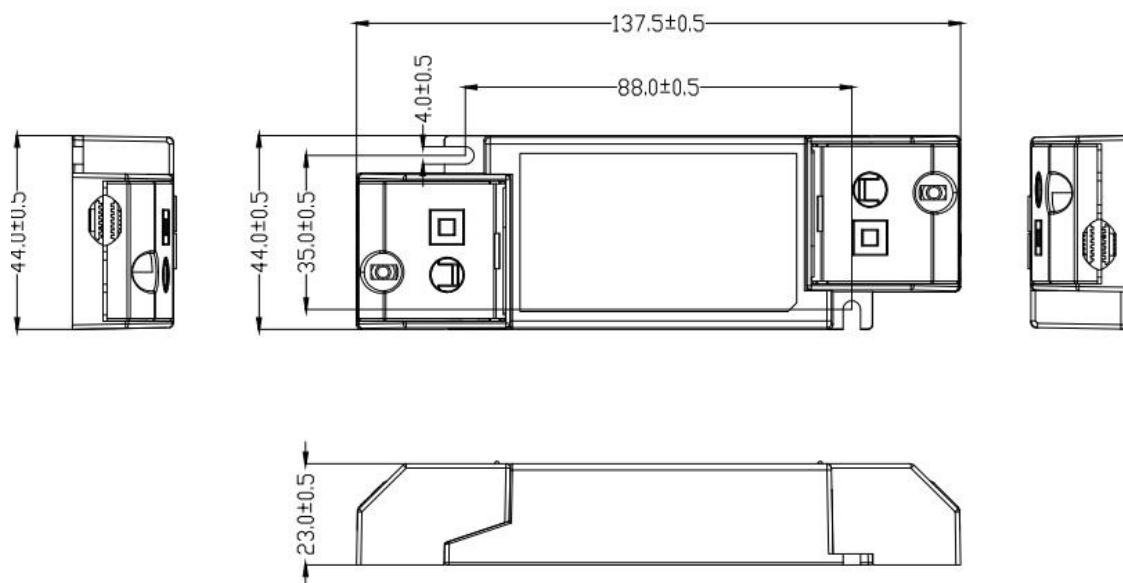
Built in type:



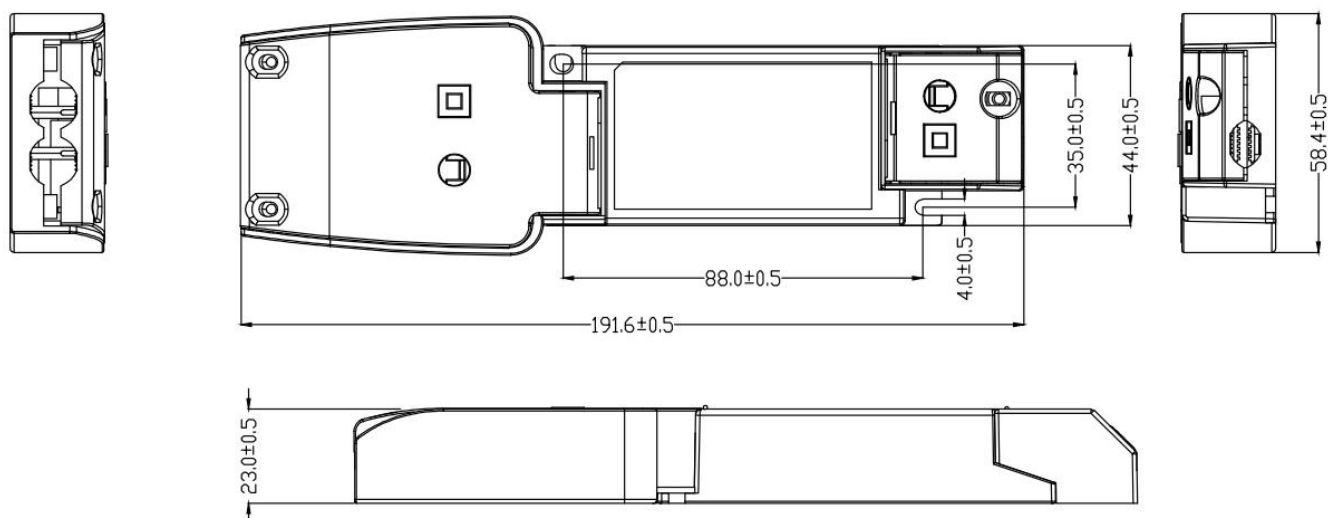
Compatible Small Strain reliefs:SR_CC21-30-44

Compatible Large Strain reliefs:SR_CC21-30-44_5POL

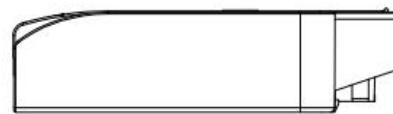
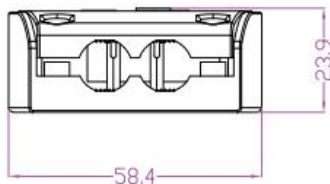
Small Strain reliefs



Large Strain reliefs



Large Strain reliefs specifications



Tolerance for dimensions ± 0.1 mm

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 57.4-59.4 x 22.9-24.9 mm

Wire size: 0.5 - 2.5 mm²

Ambient temperature range: -25...+45 °C

Storage temperature range: -40...+80 °C

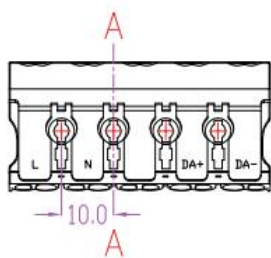
Assembly temperature range: +5...+30 °C

Do not store in wet or humid environment!

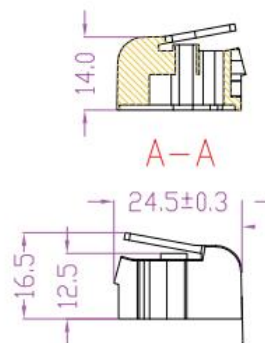
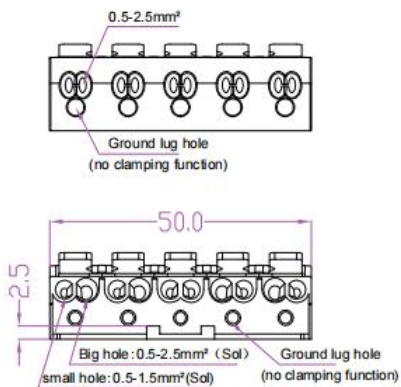
*Unless otherwise stated in the driver datasheet (for independent installation).

Note! Tc max temperature of the driver shall not be exceeded.

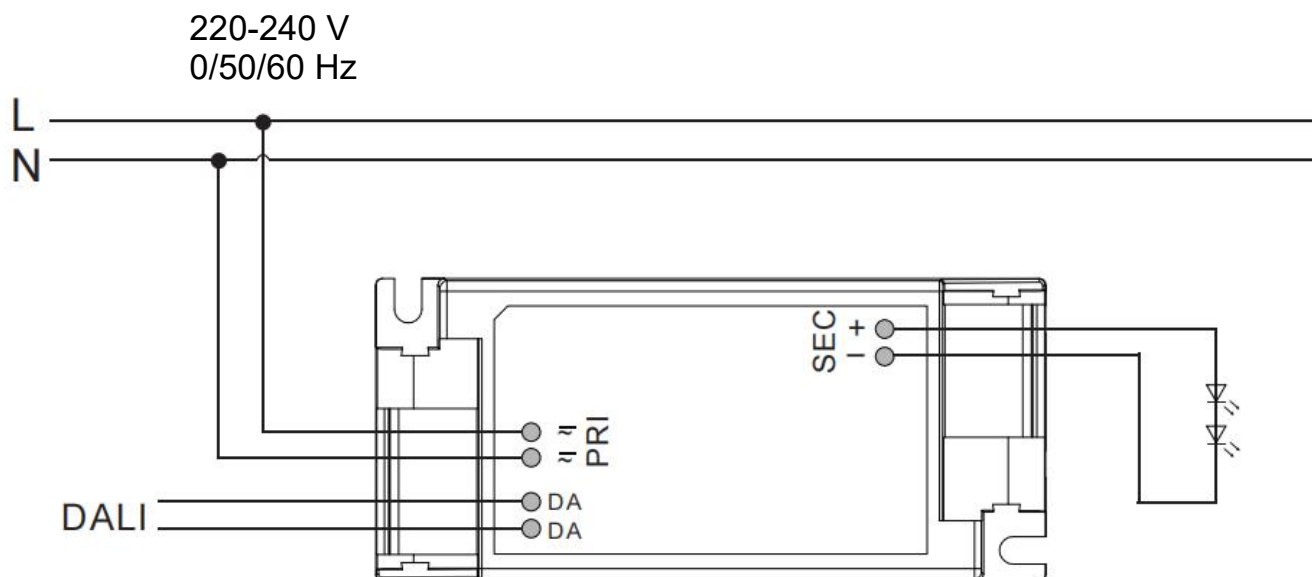
Terminal



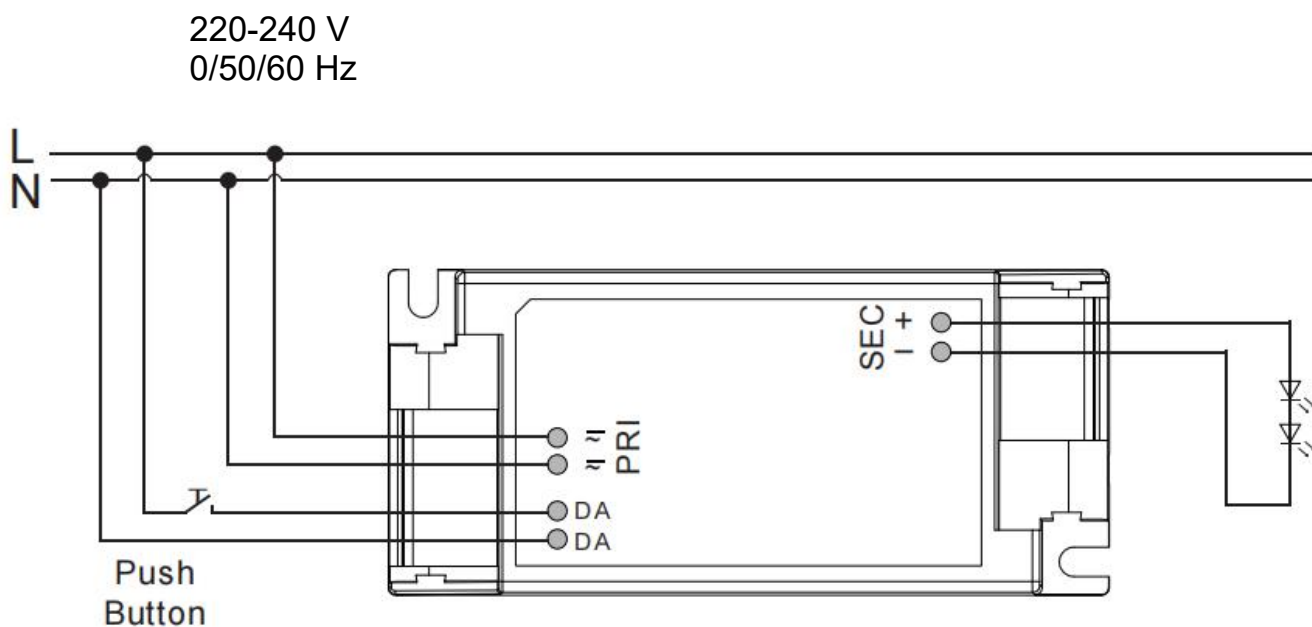
5 - pole connector for DA / CC drivers with LC-SRB-LOOP



5. Wiring Diagram

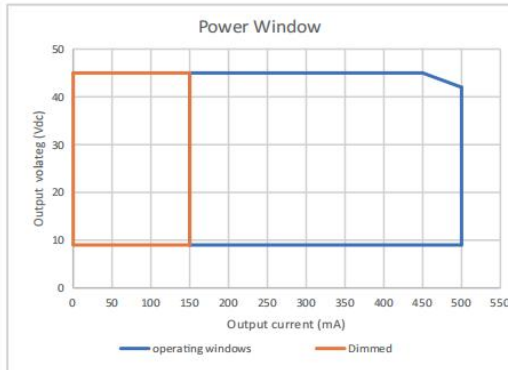


Push Dimming

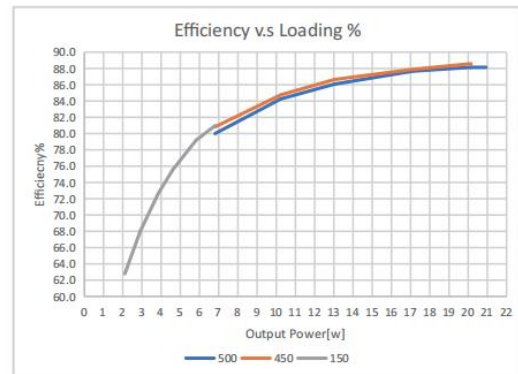


6. Electrical values

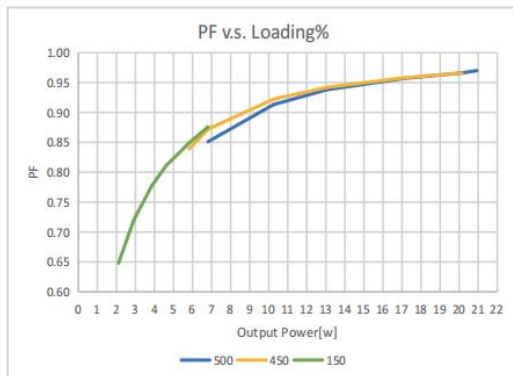
1. Operating power windows



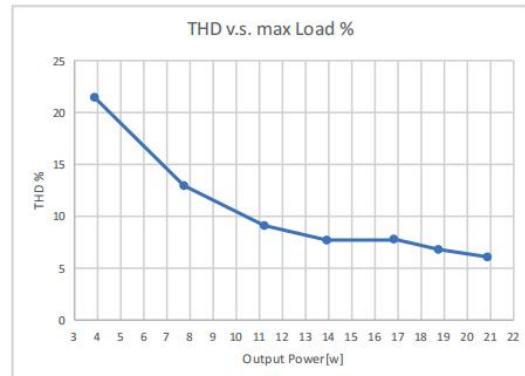
2. Efficiency v.s. Load



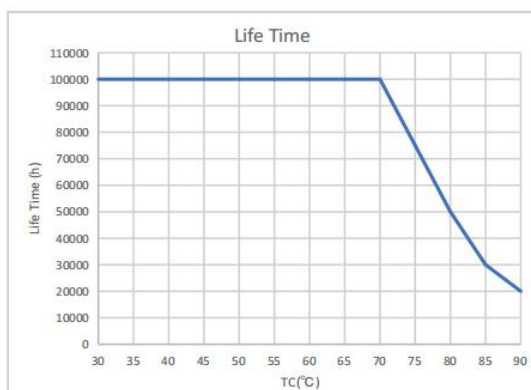
3. PF v.s. Load



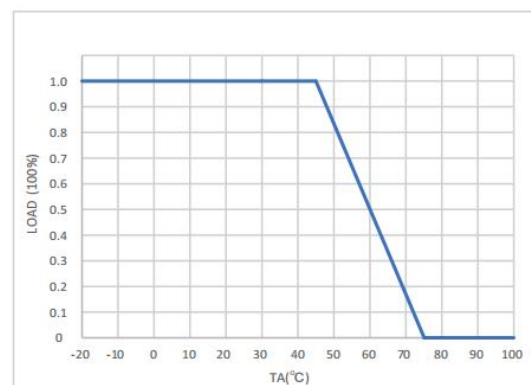
4. THD v.s. Load



5. Life time



6. Derating



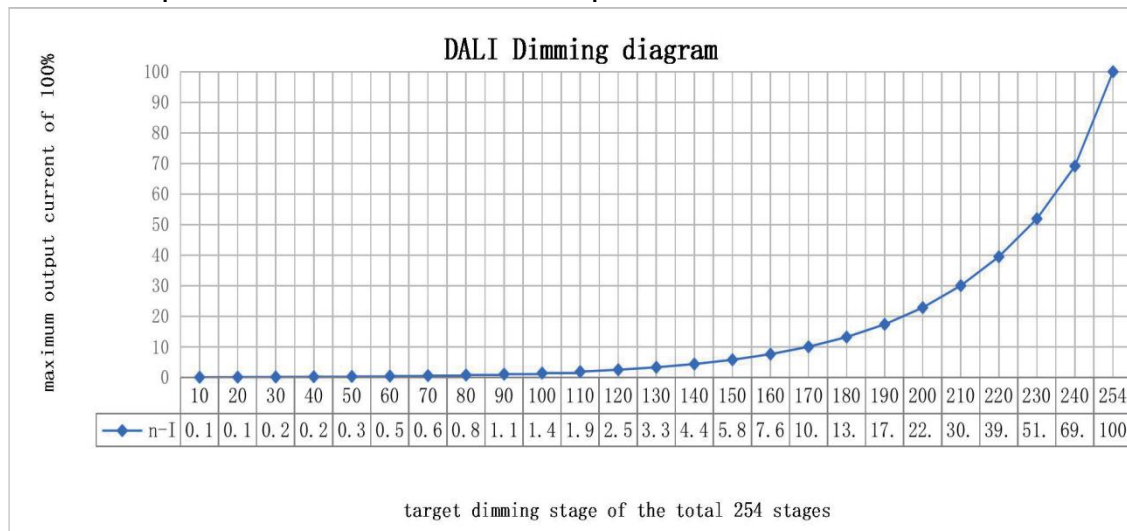
7. DALI dimming curve

formula for DALI dimming.

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

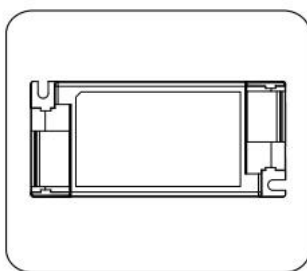
Here, n means the target dimming stage of the total 254 stages.

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

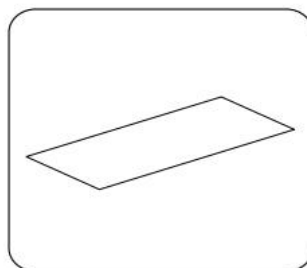


8. Packing information

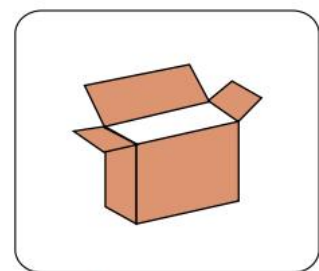
Built-in type



Product



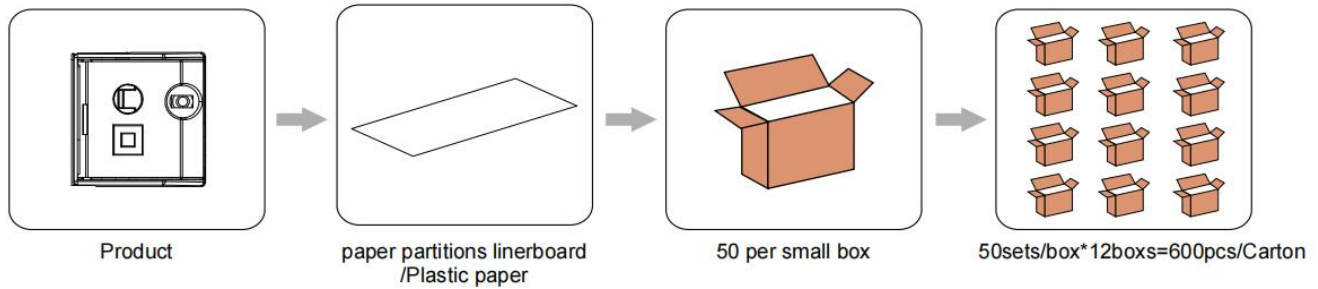
paper partitions linerboard
/Plastic paper



100 per small box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	100	0.092	9.21	9.56

Strain reliefs



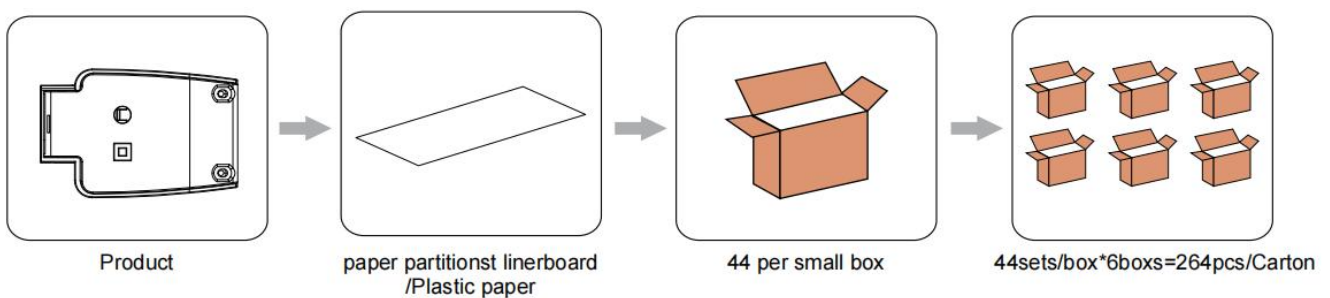
Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
224*138*90	50	0.008	0.40	0.76

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
460*430*195	600	0.008	4.26	4.76

Large Strain reliefs



Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
300*180*122	44	0.059	2.63	2.78

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
375*315*385	264	0.059	15.72	17.26

9. Ordering Data

Model No	Item code
CC21W150-500-DALI-NX	157520
SR_CC_21-30-44	147921
SR_CC_21-30-44_5POL	147941

10. Constant light output (CLO)

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

11. Push Dim :

12.1 On / off:

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

12.2 Power-on memory function

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the brightness during dimming is not memorized)

12.3 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.

12.4 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-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

12.5 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.

12.6 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.

12. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release