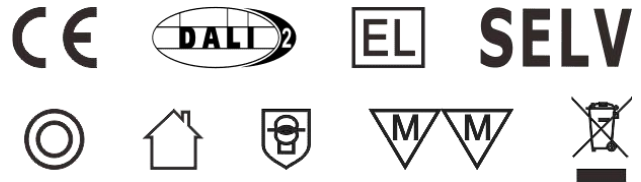




Constant Current Dimmable Driver

Model: C44C700-1050D-D



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
C44C700-1050D-D	700mA	0.19A	39W	6.30-34.30W	≥0.95	90.0%	9-49VDC	59V Max.
	750mA	0.20A	41W	6.75-36.00w	≥0.95	90.0%	9-48VDC	
	800mA	0.21A	41W	7.20-36.00w	≥0.97	90.0%	9-45VDC	
	850mA	0.22A	43W	7.65-38.25W	≥0.97	90.0%		
	900mA	0.23A	46W	8.10-40.50W	≥0.97	90.0%	9-42VDC	
	950mA	0.24A	45W	8.55-39.90W	≥0.97	90.0%		
	1000mA	0.25A	47W	9.00-42.00w	≥0.97	90.0%		
	1050mA	0.26A	50W	9.45-44.10W	≥0.97	90.0%		

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2 / Push DIM
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	50/60Hz
	Input Current	≤0.26A(230VAC, full load)
	Input Power	≤50W (230VAC, full load)
	Power Factor	≥0.97 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	Standby Power Consumption	≤0.5W @ 230VAC
Output	Output Voltage Range	9-49VDC@700mA
		9-48VDC@750mA
		9-45VDC@800-900mA
		9-42VDC@950-1050mA
	No Load Voltage	59VDC Max.
	Output Current	700-1050mA(Max. output)
Max. Output Power	44.1W	



	Efficiency	≥90% 230VAC, full load@max current
	Current Ripple (≤120HZ)	±5% (Imax-Imin)/(Imax+Imin)
	PSTLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Starting Time (AC mode)	≤1S (230VAC, full load, by DALI system)
	Starting Time (DC mode)	≤1S
Control Method	PUSH dimming	PUSH dimming (Max. lead wire length: 20m, same port of DALI)
	PUSH-button	Max parallel connections qty for Push-dim 15 PCS
	DALI function	DALI dimming (Max. lead wire length: 300m) Logarithm or linear dimming curve selectable 251,252,253 EL(EMI not evaluated),CLO,Corridor mode.
	Dimming range	DALI dimming: 1%-100%, Dim to off
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25...+45℃@700-1000mA
		-25...+40℃@1050mA
	Ts/Storage Temperature	-25...+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10% 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built in & Independent
	PRI Wire preparation	0.5 -1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	Built in:97.5*44*23mm (L*W*H) Independent-Small side cover :137.6*44*23mm (L*W*H) Independent-Large side cover :191.6*44*23mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017,EN 62493:2015
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2020, EN 61547:2009,EN IEC 61000-3-2:2019, EN 61547:2009,EN IEC 61000-3-3:2013/A1:2019
	Performance	EN62384:2020
	Surge	L-N:2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta



Warranty	5years ,F.R. < 10000ppm
Audible Noise	<22dB @ 20cm distance, 15dB background

Remark:

- All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
- LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- Please make sure Tc under Lifetime condition when long term operate under DC input.


Light output level in DC operation: (factory default = 100 %, EOFi = 15%).

- During the PUSH DIM test, the number of parallel connections must be less than 15PCS.

2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	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	12	15	18	23	@230VAC	65	200uS
TYPE C		15	19	24	30	37			
TYPE D		24	31	38	47	59			

3. Label



wire preparation
8-9mm

PRI:0.5-1.5[□]
DALI:0.5-1.5[□]
SEC:0.5-1.5[□]

PRI: ● L
● N


DIM ● DA
● DA

PUSH-CONTROL
L N
E DALI

C44C700-1050D-D LED Dimmable Driver
Constant Current LED Power Supply tc:85°C ta:45°C(44.1W ta:40°C)
PRI:220-240VAC 50/60Hz 0.26A Max.
SEC:700mA 9-49VDC 800-900mA 9-45VDC
750mA 9-48VDC 950-1050mA 9-42VDC
Uout:Max.59VDC For LED modules Only (ic)

Pout [W]	Iout [mA]	λ	1	2	3	Pout [W]	Iout [mA]	λ	1	2	3
34.3	700	0.95	-	-	-	40.5	900	0.97	ON	-	-
36.0	750	0.95	-	-	ON	39.9	950	0.97	ON	-	ON
36.0	800	0.97	-	ON	-	42.0	1000	0.97	ON	ON	-
38.3	850	0.97	-	ON	ON	44.1	1050	0.97	ON	ON	ON






ON
↓
OFF





+

-

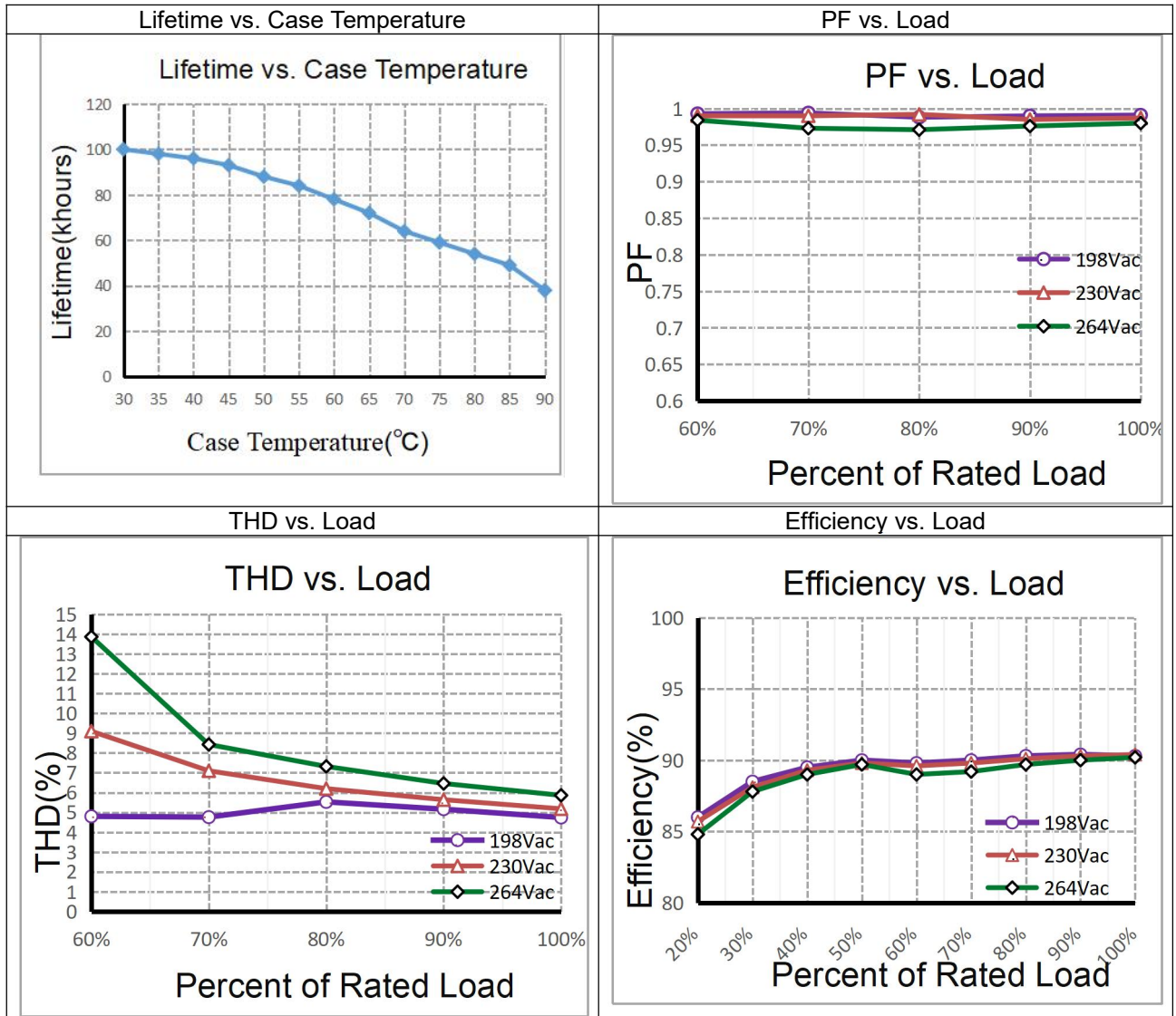
SEC

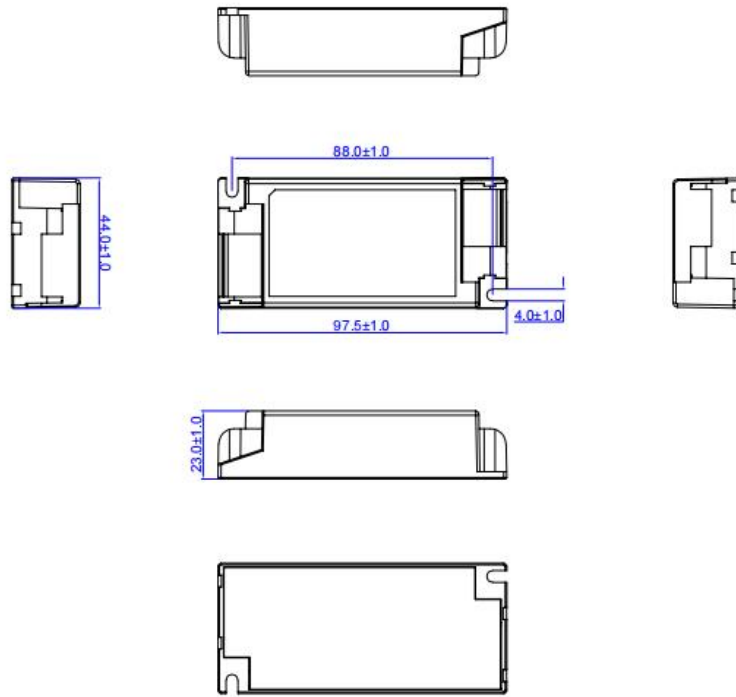





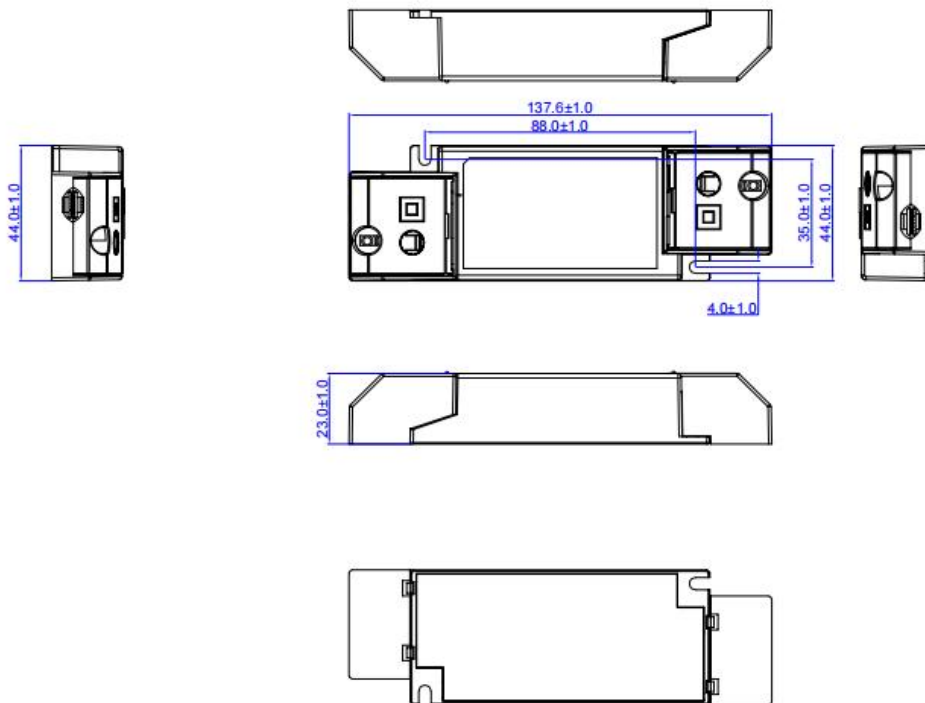
4. Electrical values



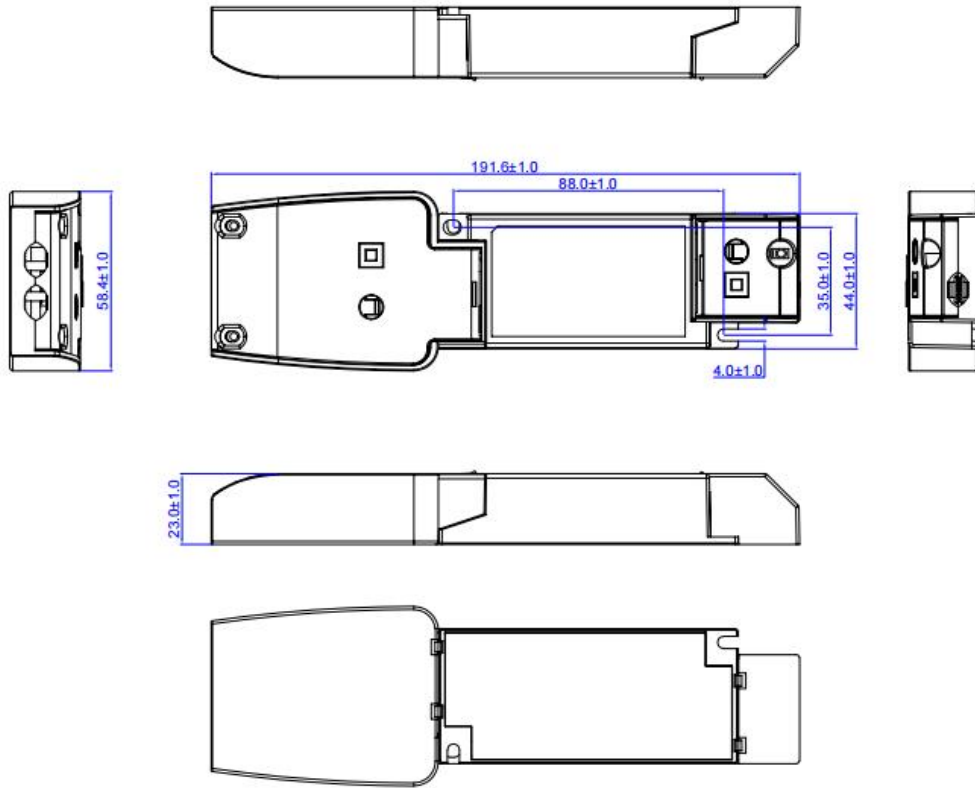
**5. Dimension
SC (A) :**



Small side cover(B) :

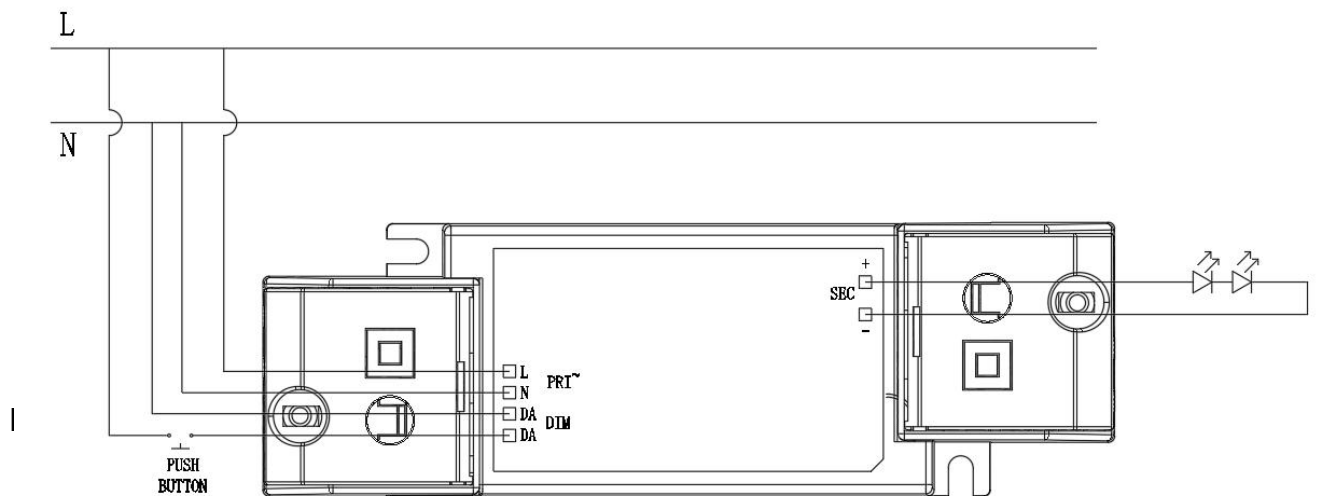


Large side cover(C):



6. Wiring Diagram

Fig. A: Push Dimming



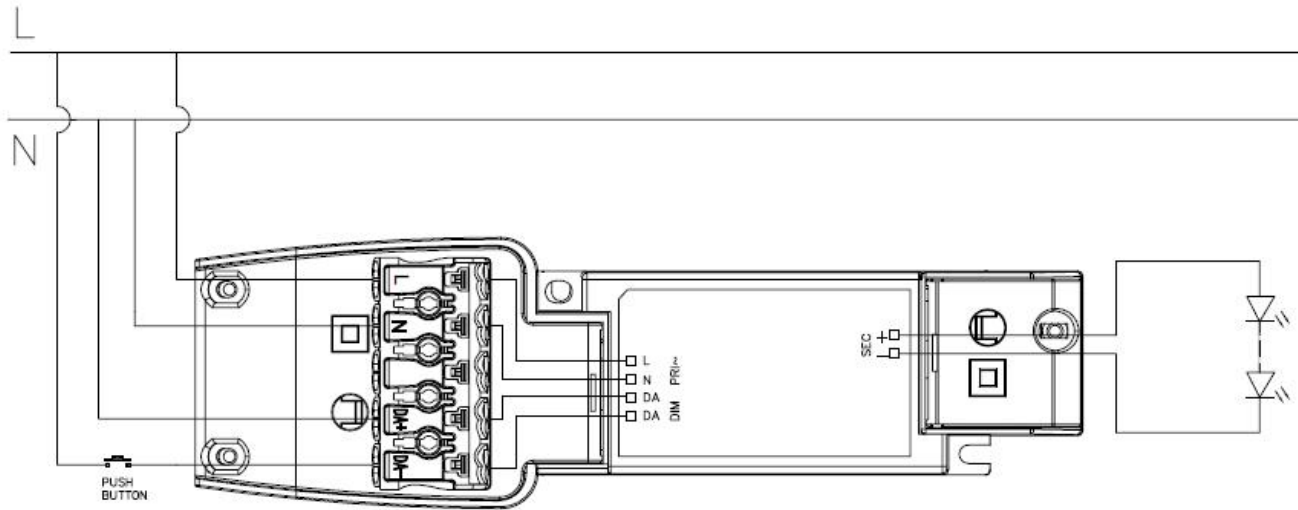
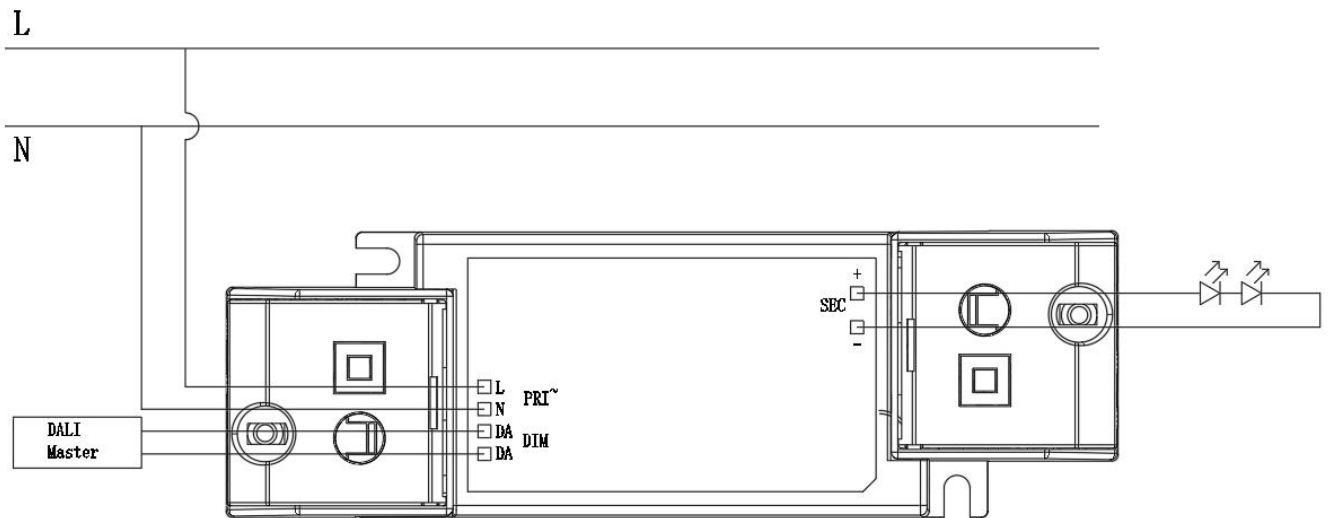
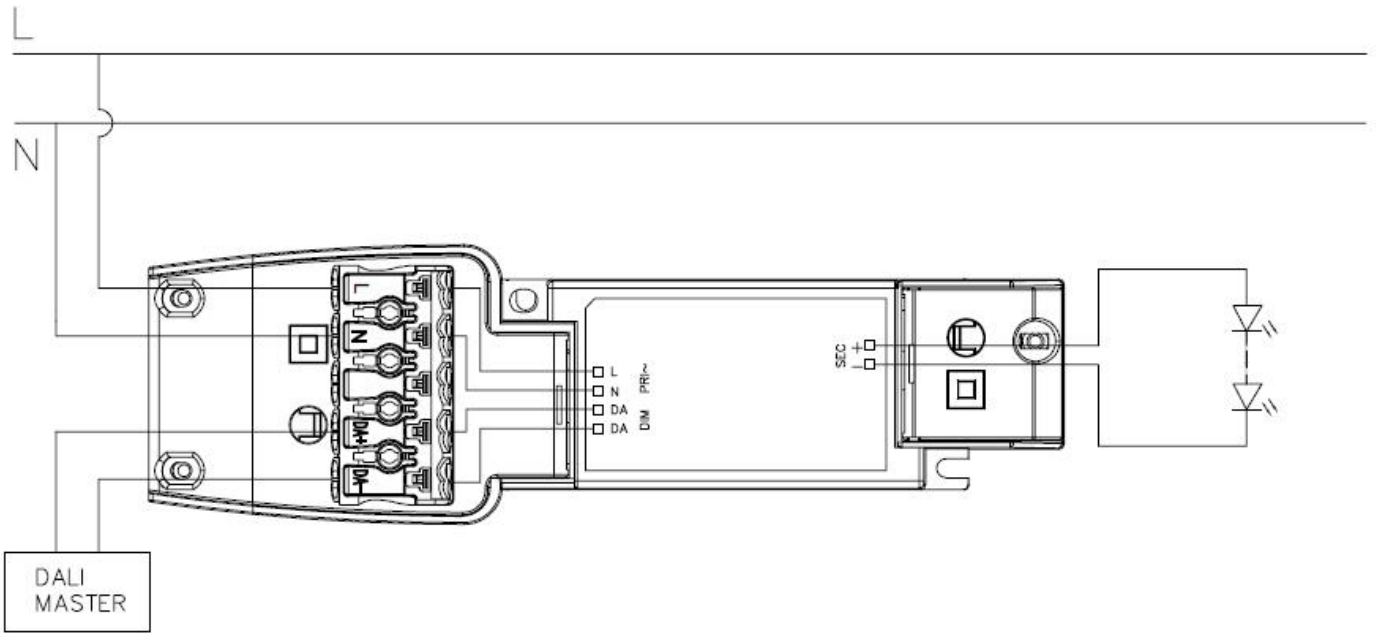


Fig. B: DALI Dimming





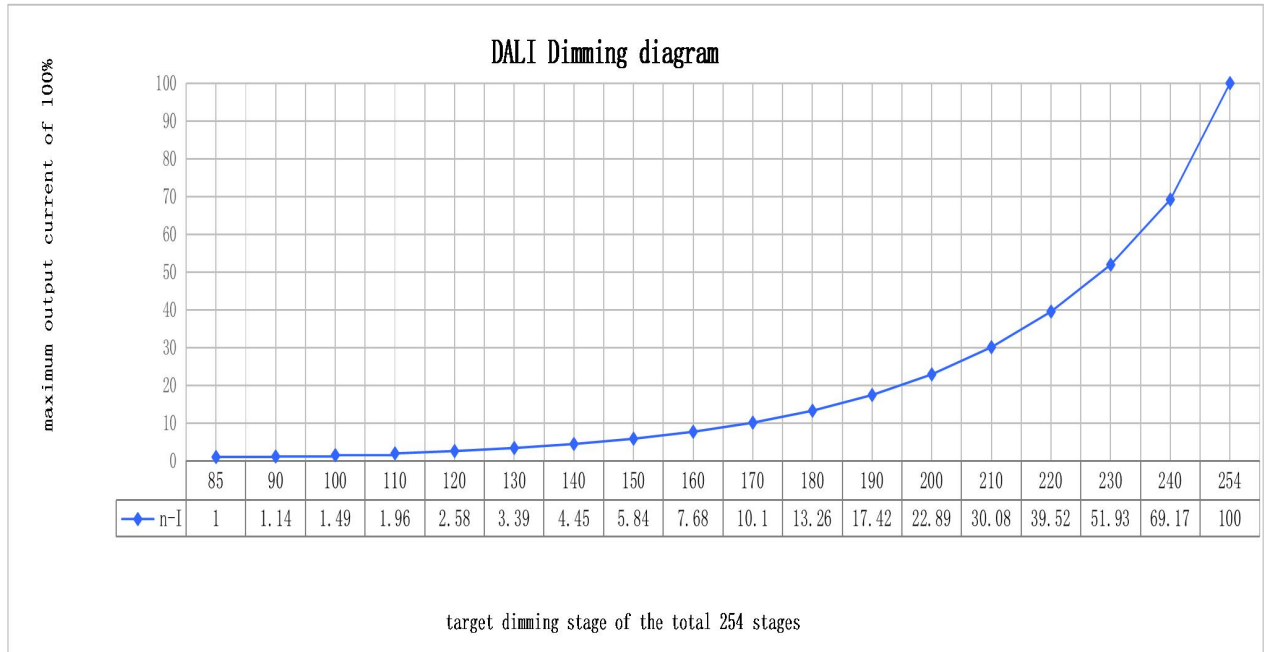
7. DALI dimming curve

formula for DALI dimming.

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

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

SC(A)

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	C44C700-1050D-D	447*240*200	110	0.126	13.53	14.23

Small side cover(B)

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	C44C700-1050D-D	447*240*200	80	0.144	11.68	12.38

Large side cover(C)

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	C44C700-1050D-D	447*240*200	80	0.1905	15.24	15.94

9. Revision History

Date	Revision	Remark
2023-10-26	V1.0	preliminary version
2024-02-22	V1.1	Update the label

