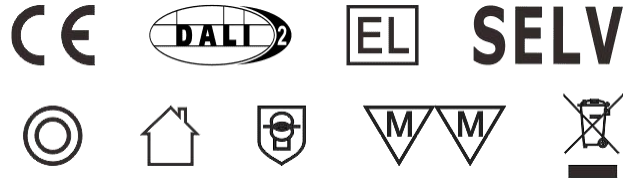


Constant Current Dimmable Driver

Model:C60C700-1400D-D



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
C60C700-1400D-D	700mA	0.20A	38.7W	6.3-33.6W	≥0.90	90%	9-48V	59V Max.
	750mA	0.21A	41.4W	6.75-36W	≥0.90	90%		
	800mA	0.23A	44.2W	7.2-38.4W	≥0.91	90%		
	850mA	0.24A	46.9W	7.65-40.8W	≥0.91	90%		
	900mA	0.26A	49.7W	8.1-43.2W	≥0.92	90%		
	950mA	0.27A	51.9W	8.55-45.6W	≥0.92	90%		
	1000mA	0.28A	54.6W	9-48W	≥0.93	90%		
	1050mA	0.29A	57.3W	9.45-50.4W	≥0.93	90%		
	1100mA	0.30A	59.4W	9.9-52.8W	≥0.94	90%		
	1150mA	0.32A	62.1W	10.35-55.2W	≥0.95	90%		
	1200mA	0.33A	64.8W	10.8-57.6W	≥0.95	90%		
	1250mA	0.34A	67.5W	11.25-60W	≥0.97	90%		
	1300mA	0.34A	66.5W	11.7-59.8W	≥0.97	90%	9-46V	
	1350mA	0.34A	66.1W	12.15-59.4W	≥0.97	90%	9-44V	
1400mA	0.34A	66.9W	12.6-60.2W	≥0.97	90%	9-43V		

* 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	≤0.34A (230VAC, full load)
	Input Power	≤70W (230VAC, full load)



	Power Factor	≥0.97 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	Standby Power Consumption	≤0.5W Dim to off, 230VAC
Output	Output Voltage Range	9-48VDC@700-1250mA
		9-46VDC@1300mA
		9-44VDC@1350mA
		9-43VDC@1400mA
	No Load Voltage	59VDC Max.
	Output Current	700-1400mA(Max. output)
	Max. Output Power	60.2W
	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℃@700-1400mA
	Ts/Storage Temperature	-25....+85℃
	Tc/Enclosure Temperature	90℃
	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:122.5*44*23mm (L*W*H) Independent-Small side cover :162.3*44*23mm (L*W*H) Independent-Large side cover :216.5*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
<p>Remark:</p> <p>1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.</p> <p>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.</p> <p>3. Please make sure Tc under Lifetime condition when long term operate under DC input.</p> <p>Light output level in DC operation: (factory default = 100 %, EOFi = 15%).</p>		

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



C60C700-1400D-D LED Dimmable Driver
 Constant Current LED Power Supply
 PRI:220-240VAC 50/60Hz 0.34A Max. tc:90°C ta:45°C
 SEC:700-1250mA 9-48VDC 1350mA 9-44VDC
 1300mA 9-46VDC 1400mA 9-43VDC

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

Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
33.6	700	0.90C	-	-	-	-	52.8	1100	0.94C	ON	-	-	-
36.0	750	0.90C	-	-	-	ON	55.2	1150	0.95	ON	-	-	ON
38.4	800	0.91C	-	-	ON	-	57.6	1200	0.95	ON	-	ON	-
40.8	850	0.91C	-	-	ON	ON	60.0	1250		ON	-	ON	ON
43.2	900	0.92C	-	ON	-	-	59.8	1300		ON	ON	-	-
45.6	950	0.92C	-	ON	-	ON	59.4	1350	0.97	ON	ON	-	ON
48.0	1000	0.93C	-	ON	ON	-				ON	ON	-	-
50.4	1050	0.93C	-	ON	ON	ON	60.2	1400		ON	ON	ON	-

ON OFF 1 2 3 4

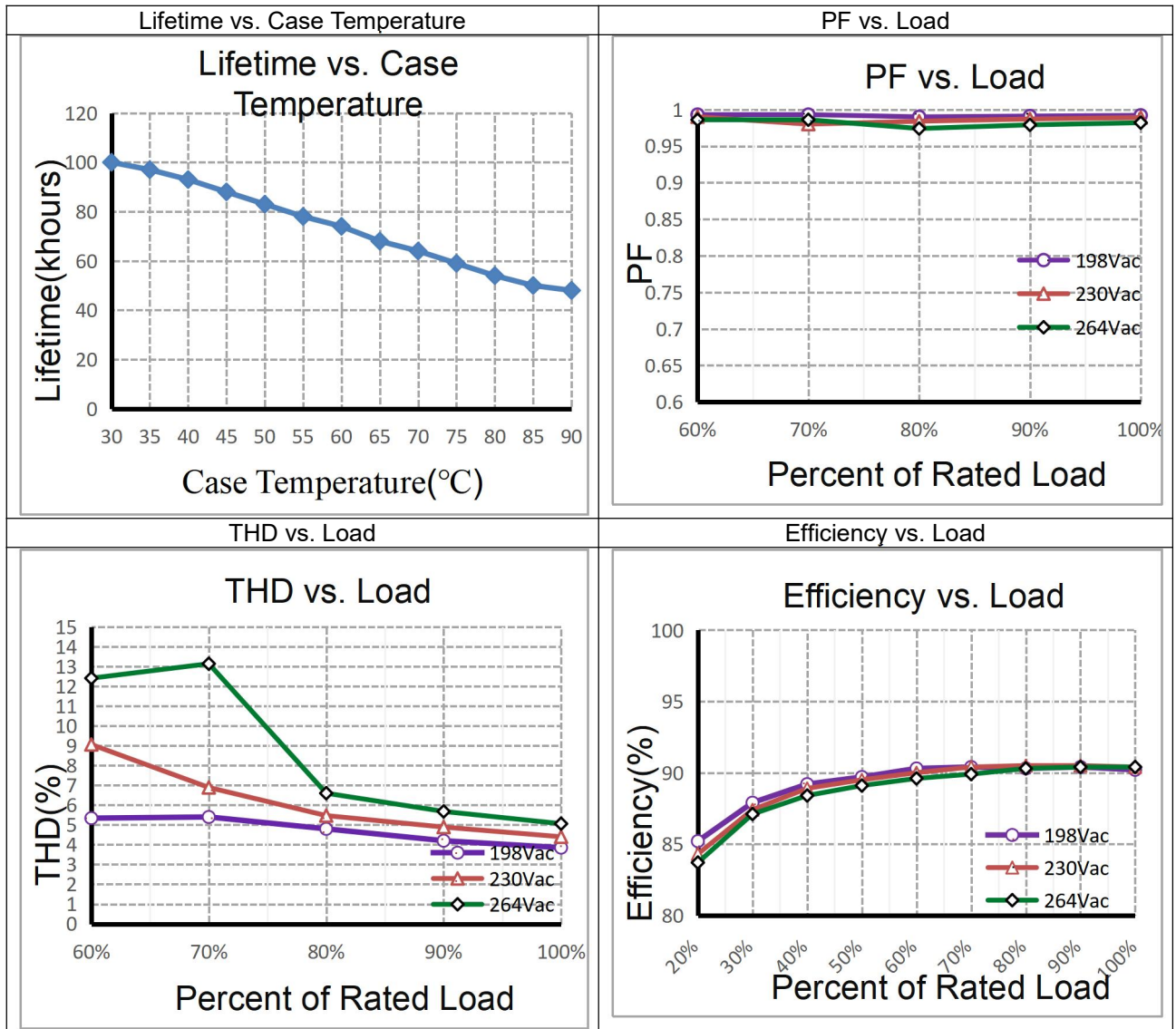
+ ● I
- ● SEC

Uout:Max.59VDC
For LED modules Only

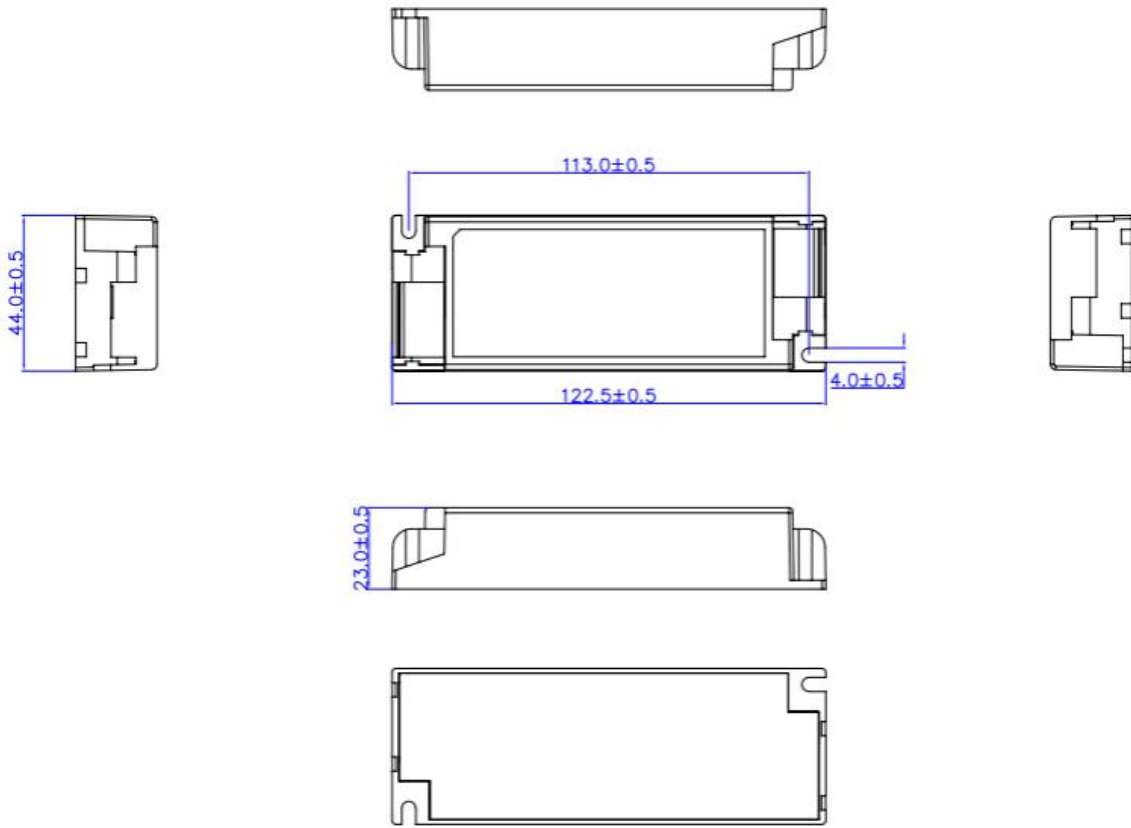




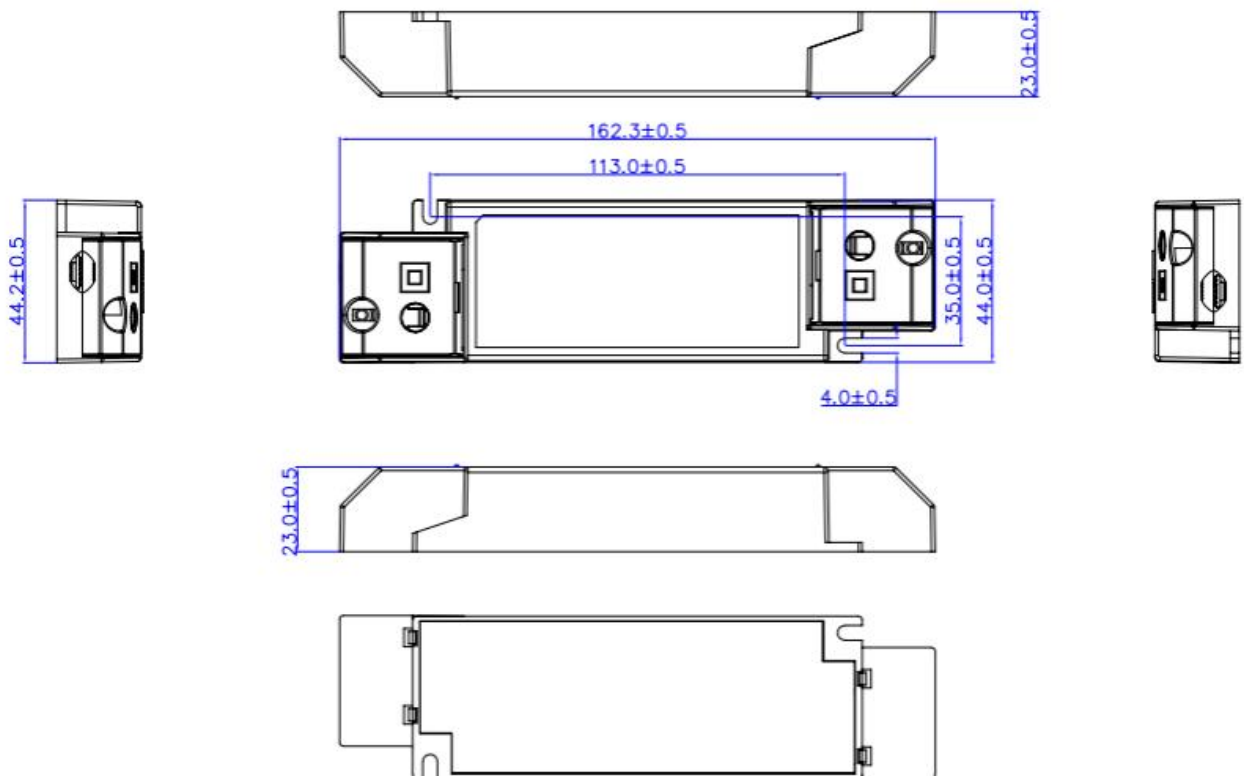
4. Electrical values



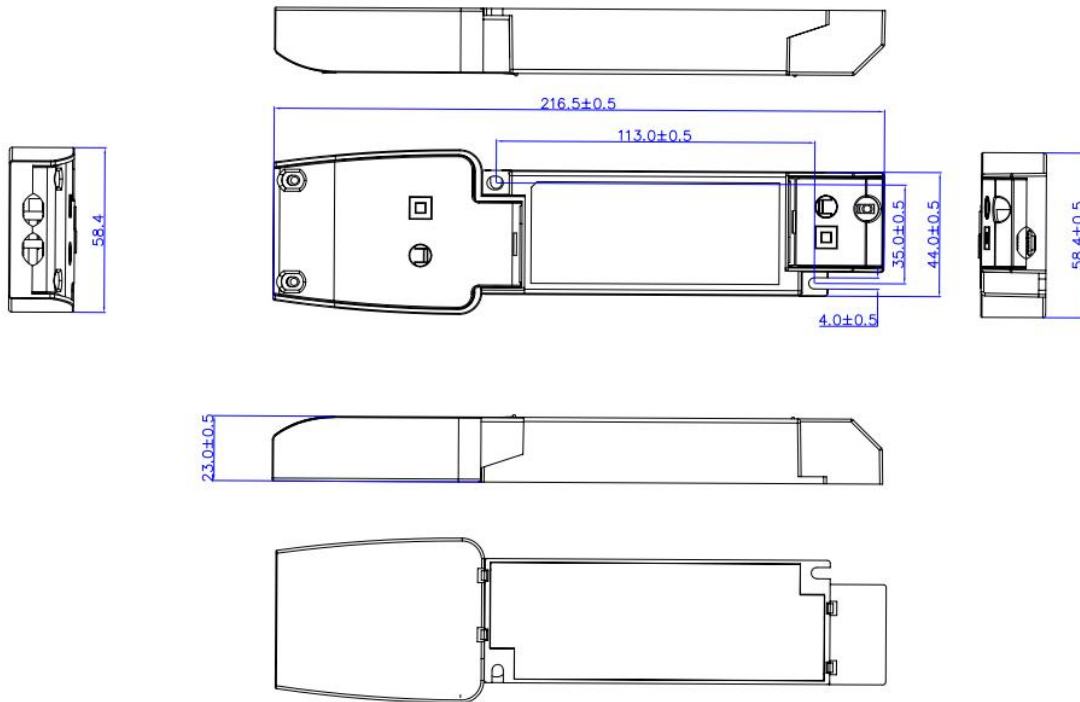
**5. Dimension
SC (A) :**



Small side cover(B)

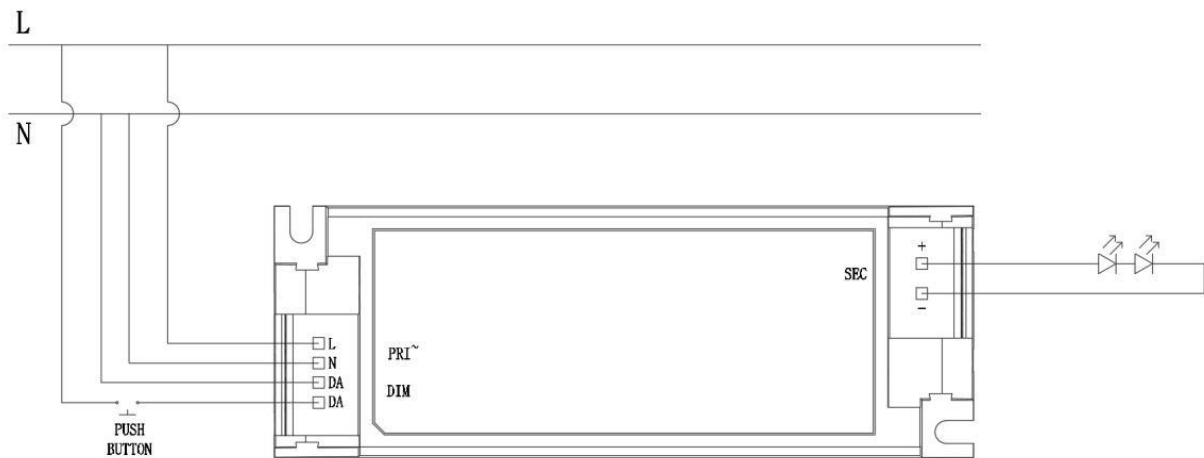


Large side cover(C):



6. Wiring Diagram

Fig. A: Push Dimming



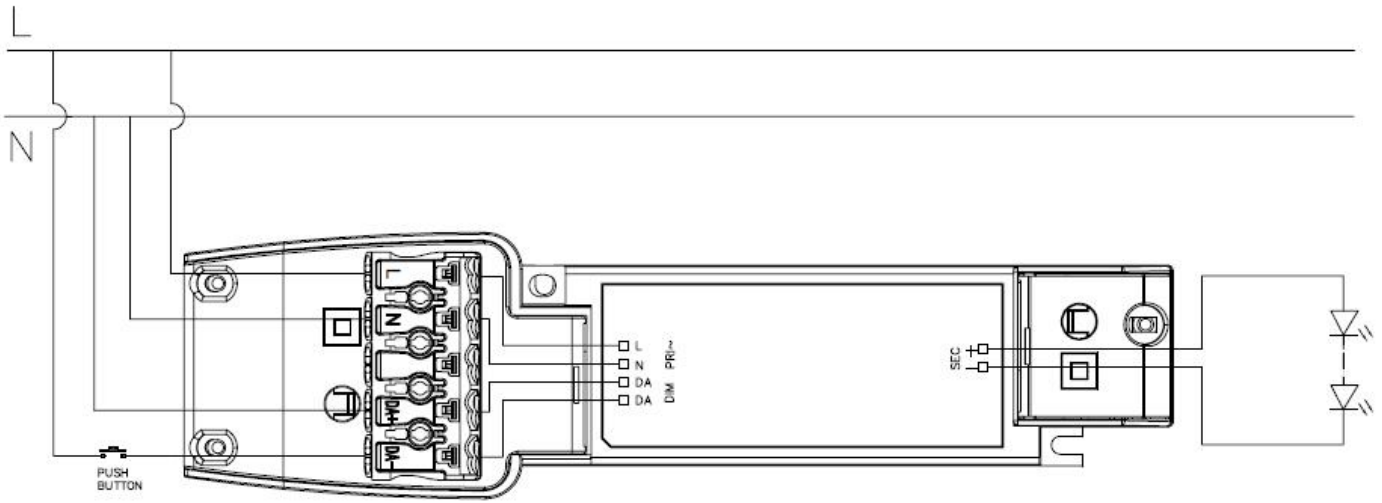
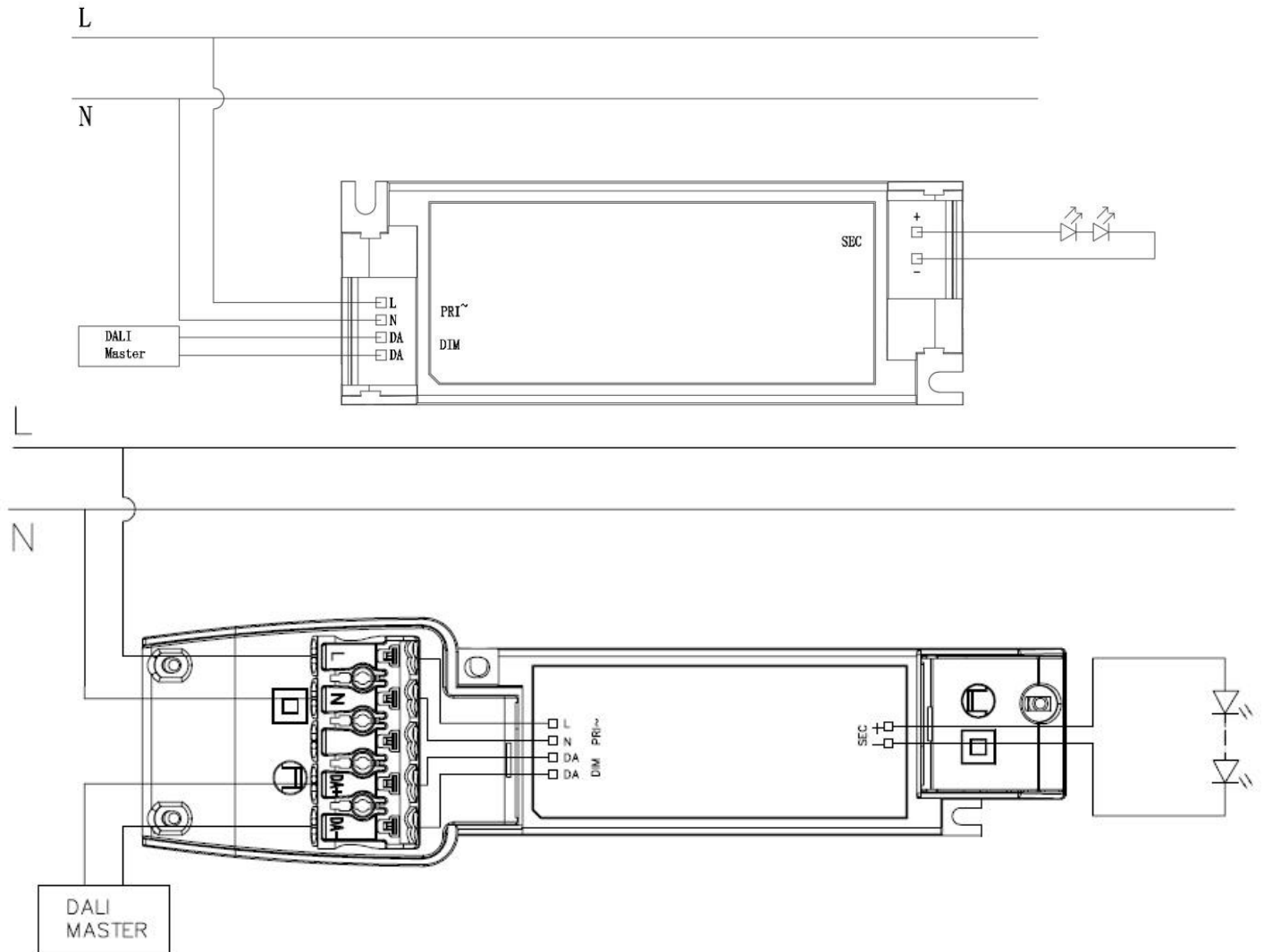


Fig. B: DALI Dimming



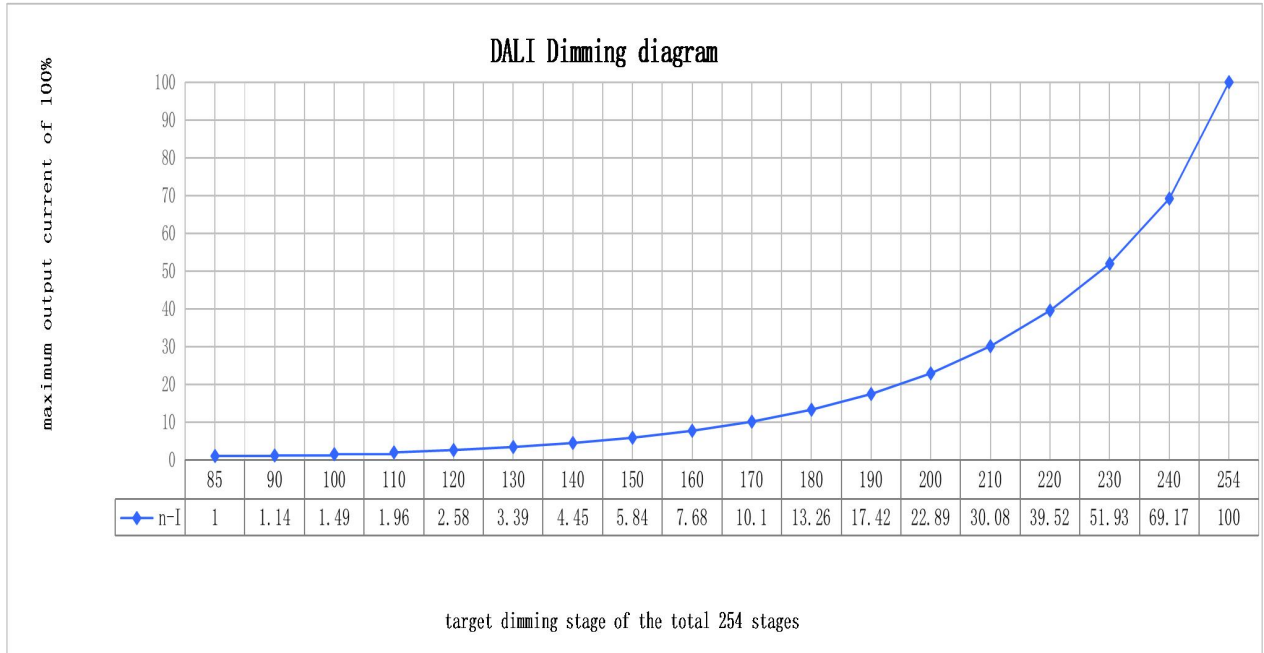
7. DALI dimming curve

formula for DALI dimming.

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

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	C60C700-1400D-D	447*240*200	80	0.175	14	14.7

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	C60C700-1400D-D	447*240*200	70	0.195	13.65	14.35

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	C60C700-1400D-D	447*240*200	70	0.2395	16.765	17.465

9. Revision History

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

