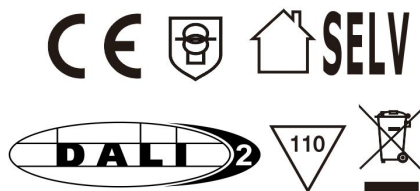


**Constant Current Dimmable Driver**

**Model:L75C900-1800D-D**



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
L75C900-1800D-D	900mA	0.28A	52.0W	18-45W	0.92	87%	20-50V	59V Max.
	1000mA	0.29A	58.0W	20-50W	0.93	88%		
	1100mA	0.31A	63.0W	22-55W	0.93	89%		
	1200mA	0.33A	69.0W	24-60W	0.94	89%		
	1300mA	0.35A	74.0W	26-65W	0.94	90%		
	1400mA	0.37A	79.0W	28-70W	0.95	90%		
	1500mA	0.39A	85.0W	30-75W	0.95	90%		
	1600mA	0.41A	77.0W	32-67.2W	0.94	90%	20-42V	
	1700mA	0.43A	81.0W	34-71.4W	0.95	90%		
	1800mA	0.45A	85.0W	36-75.6W	0.95	90%		

\* 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
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Input Current	≤0.45A(230VAC, full load)
	Input Power	≤85W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	Standby Power Consumption	≤0.5W Dim to off, 230VAC
	Inrush Current	≤55A (230VAC, full load)
Output	Output Voltage Range	20-50VDC@900-1500mA 20-42VDC@1600-1800mA
	No Load Voltage	59VDC Max.
	Output Current	900-1800mA



	Max. Output Power	75.6W
	Efficiency	≥90% 230VAC, full load@max current
	Current Ripple (≤120HZ)	<3% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length: 20m,same port of DALI)
	PUSH dimming terminal	PUSH dimming terminal (Max. lead wire length: 20m,same port of DALI)
	DALI function	DALI dimming (Max. lead wire length: 300m) Logarithmic or linear dimming curves are available DALI-2 certified incl. Parts 251, 252, 253,CLO
	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	< 700μA, I/P to O/P @230V input
Environment	Ta/Operation Temperature	-25....+50℃@900-1800mA
	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
Standards	PRI Wire preparation	0.5 -1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	280*30*21mm (L*W*H)
	Certification	CE
	Safety Standards	EN61347-1,EN61347-2-13
	EMC Standards	EN55015,EN61000-3-2,EN61000-3-3,EN61547
	Performance	EN62384
	DALI performance	EN62386-101,102,207,251,252,253
	Surge	L-N/1KV (L/N)-PE/2KV
	Others	RoHS
Life Time		50000h @Ta
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		



## 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 <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>			
TYPE B		11	14	17	22	27	@230VAC	55	300us
TYPE C		17	23	28	35	44			
TYPE D		28	36	45	56	70			

## 3. Label

□ L  
□ N  
□ PE  
□ DA  
□ DA

**KGP**  
LED Driver  
L75C900-1800D-D  
Constant Current Type

PR:220-240V 0.60-60Hz Max.0.45A  
SEC:900-1500mA 20-50VDC  
1600-1800mA 20-42VDC  
ta:50°C tc:85°C  
Uout: Max. 59VDC  
For LED modules only

Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
45	900	0.92C	-	ON	ON	-	70	1400	0.95	ON	ON	-	ON
50	1000	0.93C	ON	ON	ON	-	75	1500	-	-	ON	ON	-
55	1100	0.93C	-	-	-	ON	67	1600	0.94C	ON	-	ON	ON
60	1200	0.94C	ON	-	-	ON	71.4	1700	-	-	ON	ON	ON
65	1300	0.94C	-	ON	-	ON	75.6	1800	0.95C	ON	ON	ON	ON

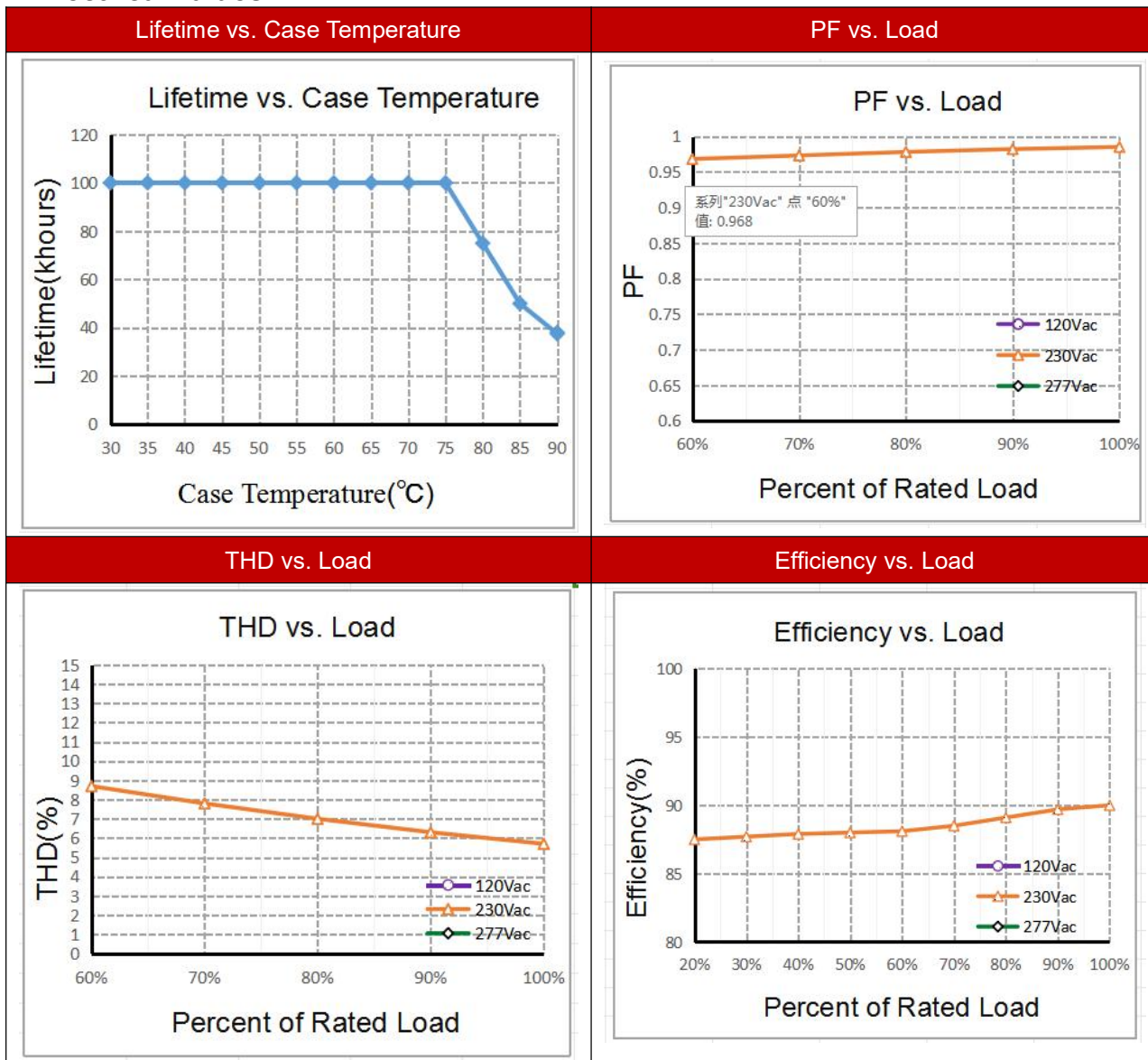
CE SELV

wire preparation  
P: 1.5-1.8mm  
S: 0.5-1.0mm

Output + -

ON OFF

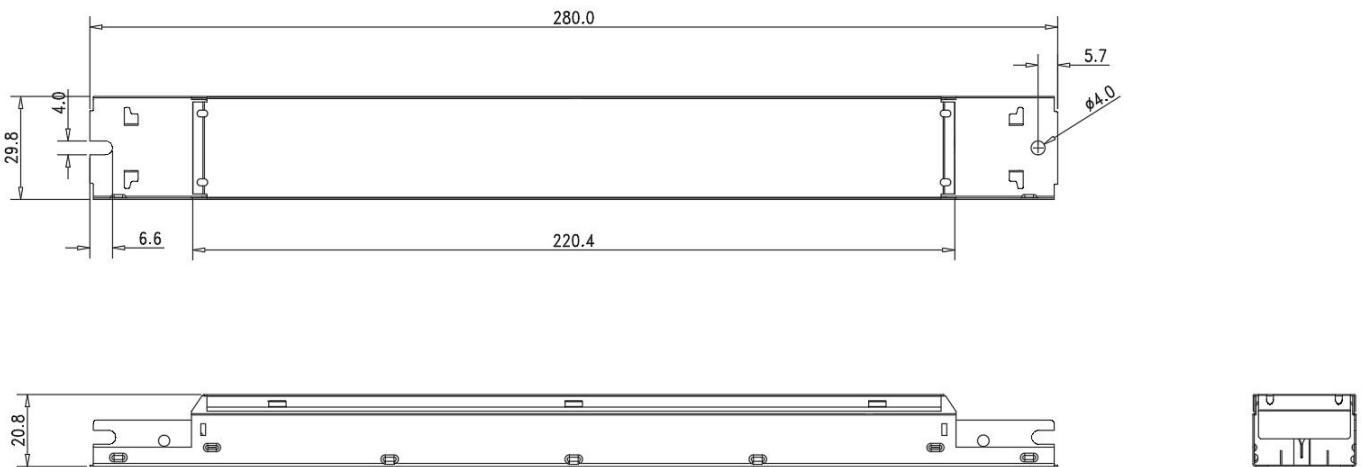
## 4. Electrical values



## 5. Output Current Setting

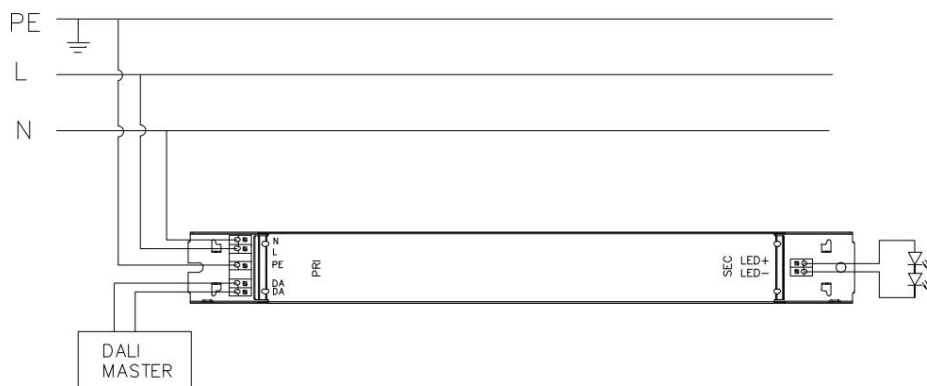
Output Current	1	2	3	4
900mA	--	--	--	--
900mA	ON	--	--	--
900mA	--	ON	--	--
900mA	ON	ON	--	--
900mA	--	--	ON	--
900mA	ON	--	ON	--
900mA	--	ON	ON	--
1000mA	ON	ON	ON	--
1100mA	--	--	--	ON
1200mA	ON	--	--	ON
1300mA	--	ON	--	ON
1400mA	ON	ON	--	ON
1500mA	--	--	ON	ON
1600mA	ON	--	ON	ON
1700mA	--	ON	ON	ON
1800mA	ON	ON	ON	ON

## 6. Dimension

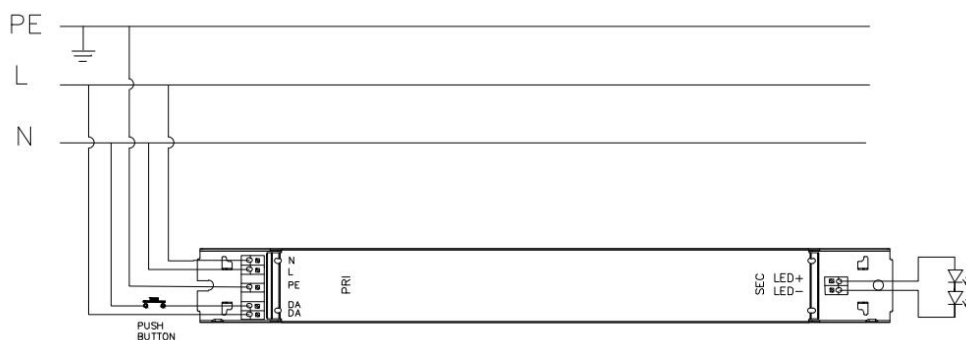


## 7. Wiring Diagram

**Fig. A: Dali Dimming**



**Fig. B: Push Dimming**



**Remark:** Push Dim function

Action	Action duration	Function
Short push	<0.5s	Turn on/off
Short push twice	<0.5s	LED on: Save current brightness level LED off: Delete saved level and turn on at 100% brightness
Short push five times	<0.5s	Quit Corridor mode
Long push	0.5-14s	Dimming up or down
Long push	15s-2mins	Sync all LEDs to be 100% brightness
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins. Then brightness will turn to be 10% within 32s if no action during 2mins 100% brightness.

- 1.The factory default brightness is at 100%.
- 2.Up to 30 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 met



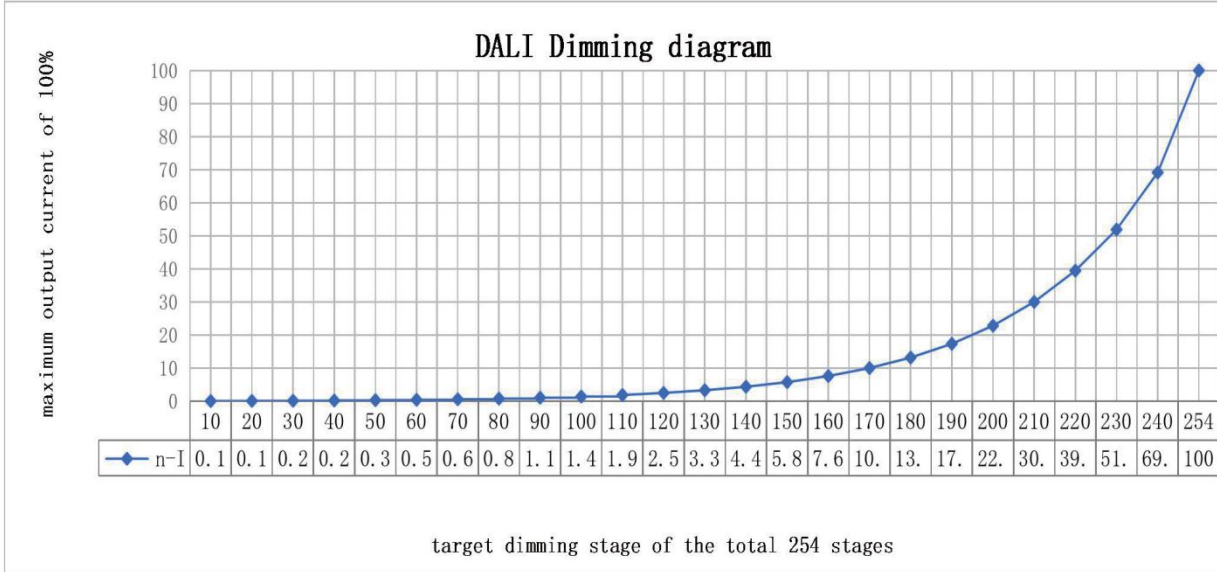
### 8. DALI dimming curve

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



### 9. 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	L75C900-1800D-D	335*300*138 MM	50PCS	0.21	10.5	12.2

### 10. Revision History

Date	Revision	Remark
2024-4-2	V1.0	Initial release.

