

SPECIFICATION

Product Name: DALI2 Dimmable LED driver

Model No.: KL60C-PDiiV

Issue Date: April 13, 2020

CUSTOMER	APPROVED



Version	Product Name / Product Model	Reason / content for change	Stage	date
A0	DALI2 LED driver KL60C-PDiiV	Initial version		2020-04-13



1.Features



1) Built-in DALI2 protocol, no flicker in full dimming range;

2) Primary Push dimming function; Push dimming has state memory function;

3) Short circuit / over temperature / over voltage protection; reduce output current after over temperature;

- 4) Standby power consumption ≤ 0.5 W;
- 5) 5 years warranty.

2.Parameters

		Minimum value	198V AC		
	voltage range	Typical value	230V AC		
		Max	264V AC		
		Minimum value	47Hz		
	Frequency Range	Typical value	50/60Hz		
		Max	63Hz		
	DC voltage range	200-240V DC			
	Rated voltage	220-240V AC 50Hz /60Hz			
	input power	65W Max			
Input	Input Current	0.32A MAX			
	Inrush current	<15A (100us half current) @ 230V AC			
	Total harmonic distortion	full load output, @ 230Vac total harmonic distortion is less than 13%			
	Power Factor	0.95 (@ 230Vac, under full load)			
	Standby power	<0.5W			
	consumption	<0.5W			
	No-load power	≤1W			
	consumption				
	Work efficiency	86% max			
	Operating mode	CC			
	Load type	LED			
	Start Time	≤1S (@230Vac Under full load)			
	Ripple current	±5% (@230Vac, 100% load,LED load)			
	Strobe requirements	Full range without	strobe (stroboscope test less than 2%)		
Output	No-load output voltage	68V Max			
Output	Load output voltage	9-58V			
	Full load output power	60W			
	Load current	Typical value	900mA(9-58V) 1050mA(9-58V)		
			1200mA(9-50V) 1400mA(9-43V)		
	O an a tan tan tan tan tan tan tan tan ta	1750mA(9-34V)			
	Constant voltage accuracy	±5%			

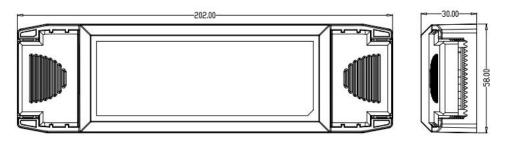
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	/ constant current accuracy			
	Primary PUSH dimming	Yes, Primary PUSH dimming (Maximum lead length: 20M)		
Control Method	1-10V (0-10V) dimming	Yes, secondary 0-10V dimming, the darkest below 1V does not		
	1-10v (0-10v) dimining	turn off		
	Dimming range	2%-100%		
Method	Potentiometer dimming	100K Potentiometer		
	DALI dimming	Yes (max lead length: 300m)		
	Output over load protection	Yes		
Exception	Output no load protection	Yes, self-recovery (with query function)		
Protection Requirements	Output over temperature protection	Yes, without self recovery function (Can be inquired)		
	Output short circuit protection	Yes, without self recovery function (Can be inquired)		
	Working environment	Typical value	-25℃…+50℃ Humidity: 85%	
Operating Environment	temperature / humidity	Typical value	(non-condensing)	
	Storage temperature/ humidity	-40 °C + 80 °C 10 ~ 95% RH (non-condensing)		
	Max. Case Temp (Tc)	85°C		
Certification	Safety standards	EN61347-1, EN61347-2-13, EN62493, EN60598-1		
	Electromagnetic compatibility (EMC) standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3		
standards	Environmental	Compliant with EU RoHS requirements		
	requirements			
	Certified	CE ENEC		
	Withstand voltage	3750Vac 5mA	60S (Input to output)	
	Input / output (terminal / lead) specifications	Push-type terminal block Wire diameter: 0.75-1.5mm2		
	Degrees of protection	IP20		
others	Product Category	Class II appliances		
outers	Packaging requirement	Independent installation		
	Installation dimension	202* 58* 30mm		
	Packaging requirements	PE bag + white box + manual + partition + outer box (K = A)		
	Net Weight	245 g		
	Warranty	5 years warran	ty @Ta 230V full load	
Remarks: 1. All	parameters are measured und	der the input volt	tage of 230Vac and the ambient temperature o	
25 $^\circ\!\!\!\mathrm{C}$, unless oth	erwise specified.			

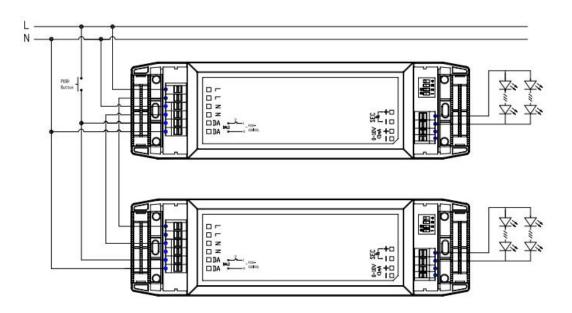


3. Dimension (Unit: mm)

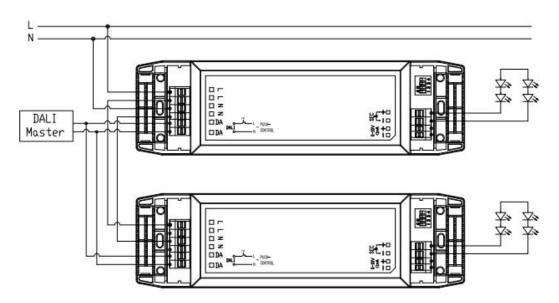


4. Wiring Diagram

1) PUSH Dimming wiring diagram



2) DALI wiring diagram

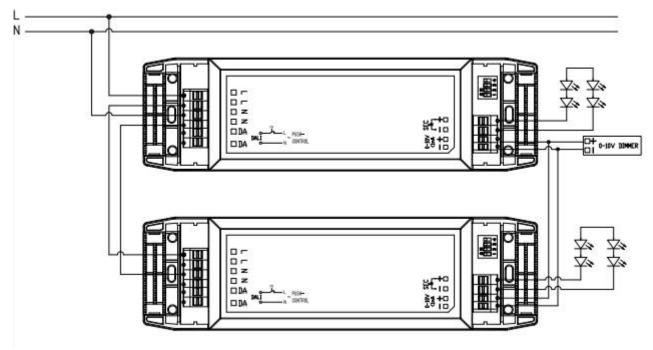


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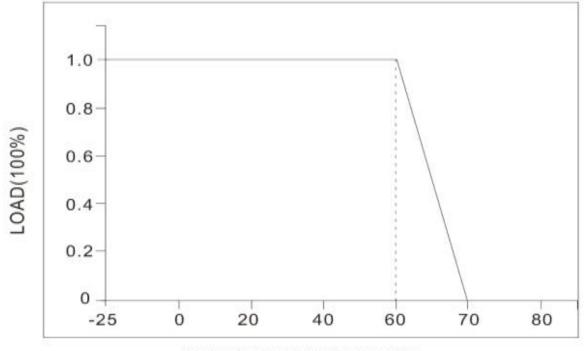
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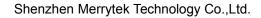
3) 0-10V dimming wiring diagram



5.Derating

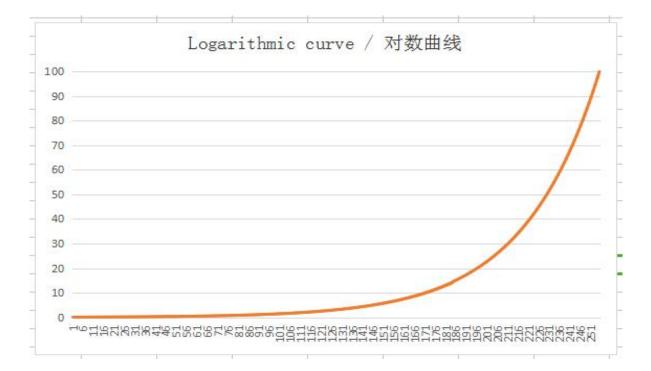


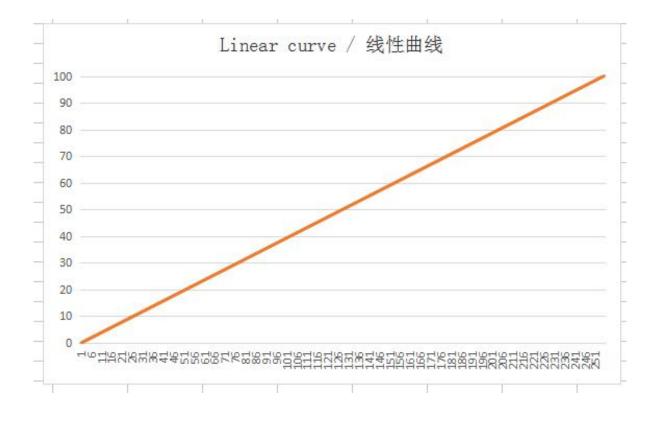
-AMBIENT TEMPERATURE(°C)





6. Dimming curve





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7.Current gear setting

Current / voltage gear setting	1	2	3	4
900MA	-	-	-	-
1050MA	-	-	-	ON
1200MA	-	-	ON	ON
1400MA	-	ON	ON	ON
1750MA	ON	ON	ON	ON

8. ON/OFF & Description of Dimming Operation

A. Short press the PUSH switch (short press time 0.1S-1S), the LED driver will turn on or off.

B. Dimming:

Press and hold the PUSH switch (1S-8S), the LED driver can achieve dimming, brightening or dimming, the dimming range is 2-100%.

C. Memory:

PUSH dimming has dimming memory function.

D. Dimming synchronization:

The power connected to the same PUSH switch can be synchronized by pressing and holding the PUSH switch for longer than 15S.

E. DALI dimming mode:

Connect the power supply to the DALI system, and it can be dimmed by the DALI host. The dimming range is 0-100%.

9. matters needing Attention

1) The LED string must be connected to the load before turning on the input power, otherwise the LED string may be damaged.

2) After the LED driver input is powered off, there will be a residual voltage at the output, which can be maintained for about 3 minutes.