DALI Dimmable driver constant voltage Series Data Sheet 30W

Features：

Output constant Voltage

·Range 100-265VAC

·Built-in active PFC function

·Efficiency 86% Max

·Protections: short circuit/over load/ over current/

·Cooling by free air convection

·IP20 design for indoor installation .

·Dimming function: Built in DALI interface dimming function conform to DALI Protocol IEC62386

·Dimming range from 0.1% to 100%

·Suitable for intelligent LED lighting

·Compliance to worldwide safety regulations for lighting

·Suitable for dry locations

Specification

CE ⊕ ⊟ ⌂ IP20 SELV

Model		KV-12030-DA	KV-24030-DA	KV-36030-DA	KV-48030-DA
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±3%			
	Rated current	0～2.5A	0～1.25A	0～0.83A	0～0.63A
	Rated power	30W	30W	30W	30W
Input	Voltage Range	100-265VAC			
	Frequency Range	47～63HZ			
	Power Factor (Typ.)	PF≧0.95/220V			
	Full Load Efficiency(Typ.)	83%	84%	85%	86%
	AC Current(Typ.)	0.17A/220VAC	0.17A/220VAC	0.17A/220VAC	0.17A/220VAC
	Leakage current	＜0.7mA/220VAC			
Protection	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed			

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	Over Load	≦120%
	Over Circuit	≦1.4*Iout
	Protection Class:	II
	Over temperature	100℃±10℃ shut down o/p voltage, re-power on to recover
Environment	Working TEMP.	-40～+60℃
	Working Humidity	20～95%RH,non-condensing
	Storage TEM.,Humidity	-40～+80℃，10～95%RH
	TEMP.coefficient	±0.03%/℃（0～50℃）
	Vibration	10～500Hz，5G 12min./1 cycle，period for 72min.each along X,Y,Z axes
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 IP66
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
	Isolation resistance	I/P-O/P I/P-FG O/P-FG：100MΩ/500VDC/25℃/70%RH
	EMC EMISSION	Compliance toEN55015,EN61000-3-2 (≧50%load)
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6 ,11,EN61547,A light industry level （surge4KV）
Others	Weight	0.55Kg
	Size	180*60*34mm（L*W*H）
	packing	355*215*215mm/20pcs/CTN
Notes	1. All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again	

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■ Mechanical Specification
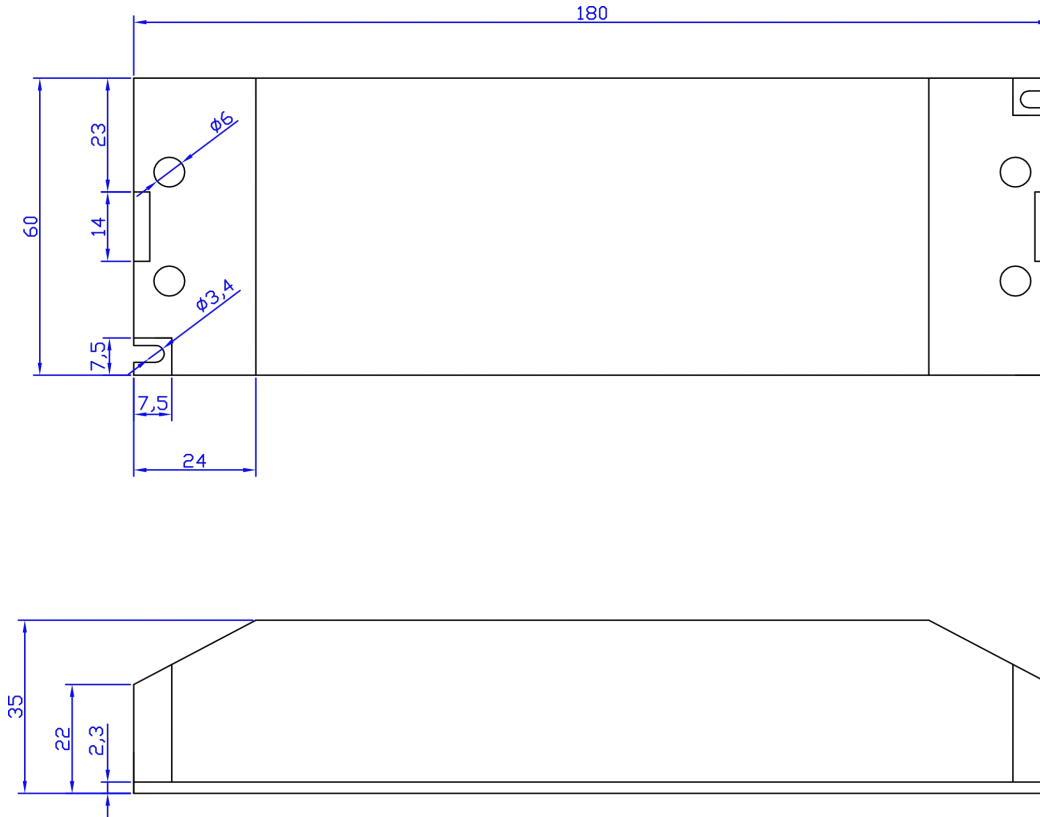
■Label
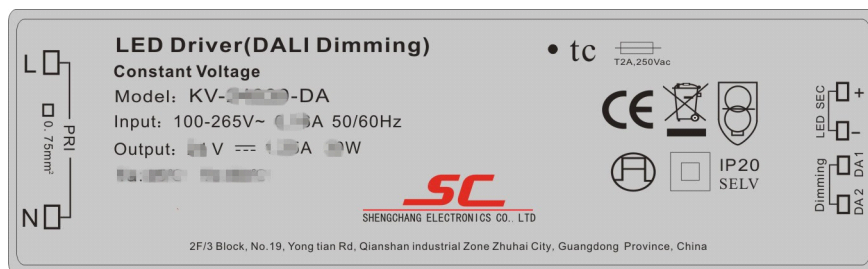
※Input with Live Wire(L)   Neutral Wire (N)

※Output LED SEC output Positive(LED+),output negative(LED-).Connected to LED Lamps.
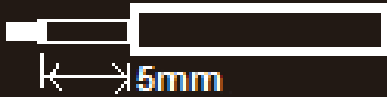
※Signal Dimming （DA1）, (DA2)   DALI Non polar！Connected to the   BUS of the DALI Master.

※ When installing the LED driver and making input and output connections, cross-section area of conductor for input and output terminal block:0.75mm²(cord type: H03VVH2-F or H03VV-F).

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※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

※Note: Any other requests we can customized.

■Dimming Operation

※Connect the Dali signal line to the Dali bus of the controller (the Dali Master).

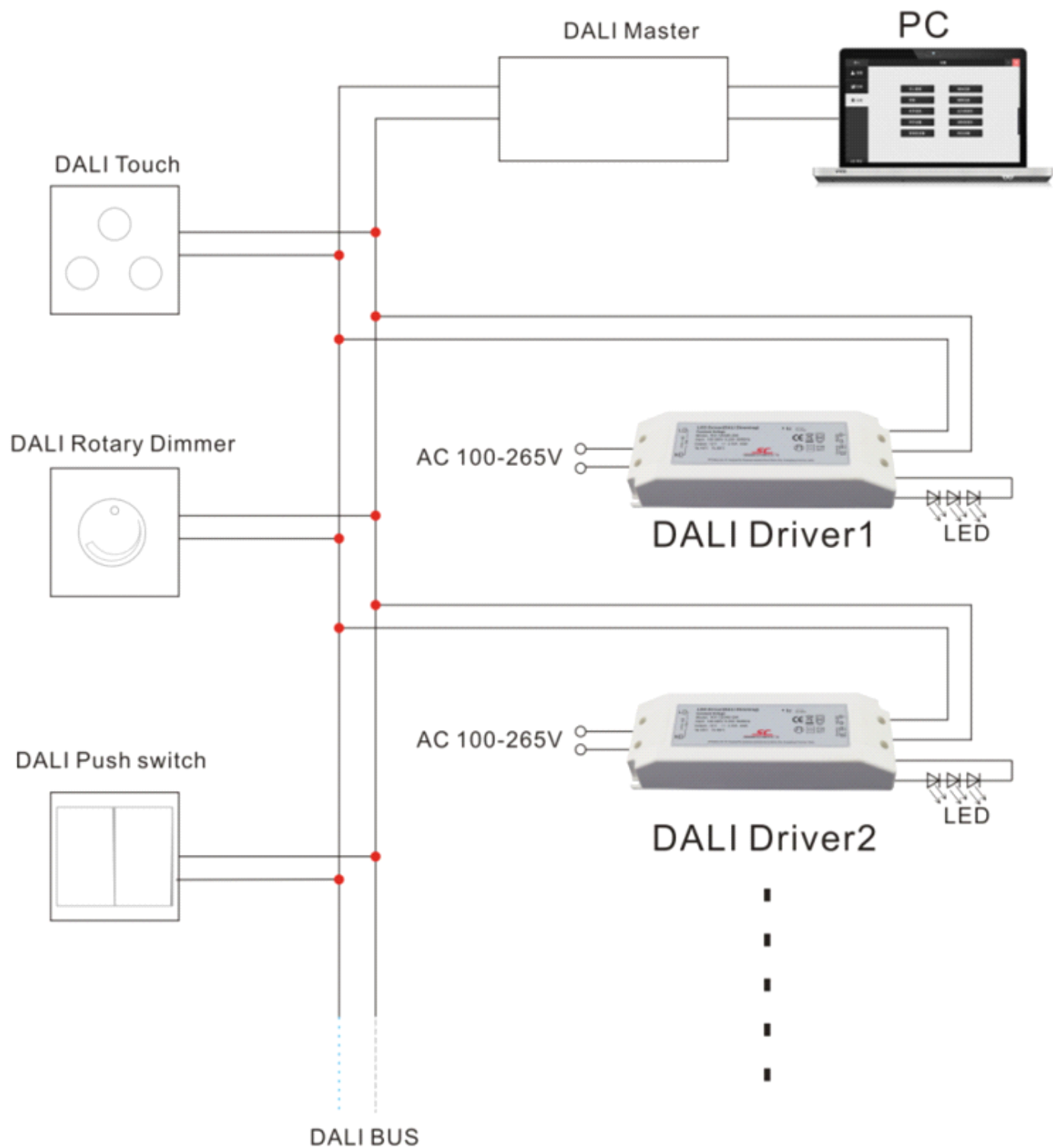After Dali Master scanning and address assignment, the driver can be successfully dimmed.

Please refer to Diagram 1

※Notice:In the market, some DALI controllers has bus-powered functions .If not,please add an extra power supply.(DALI Power).

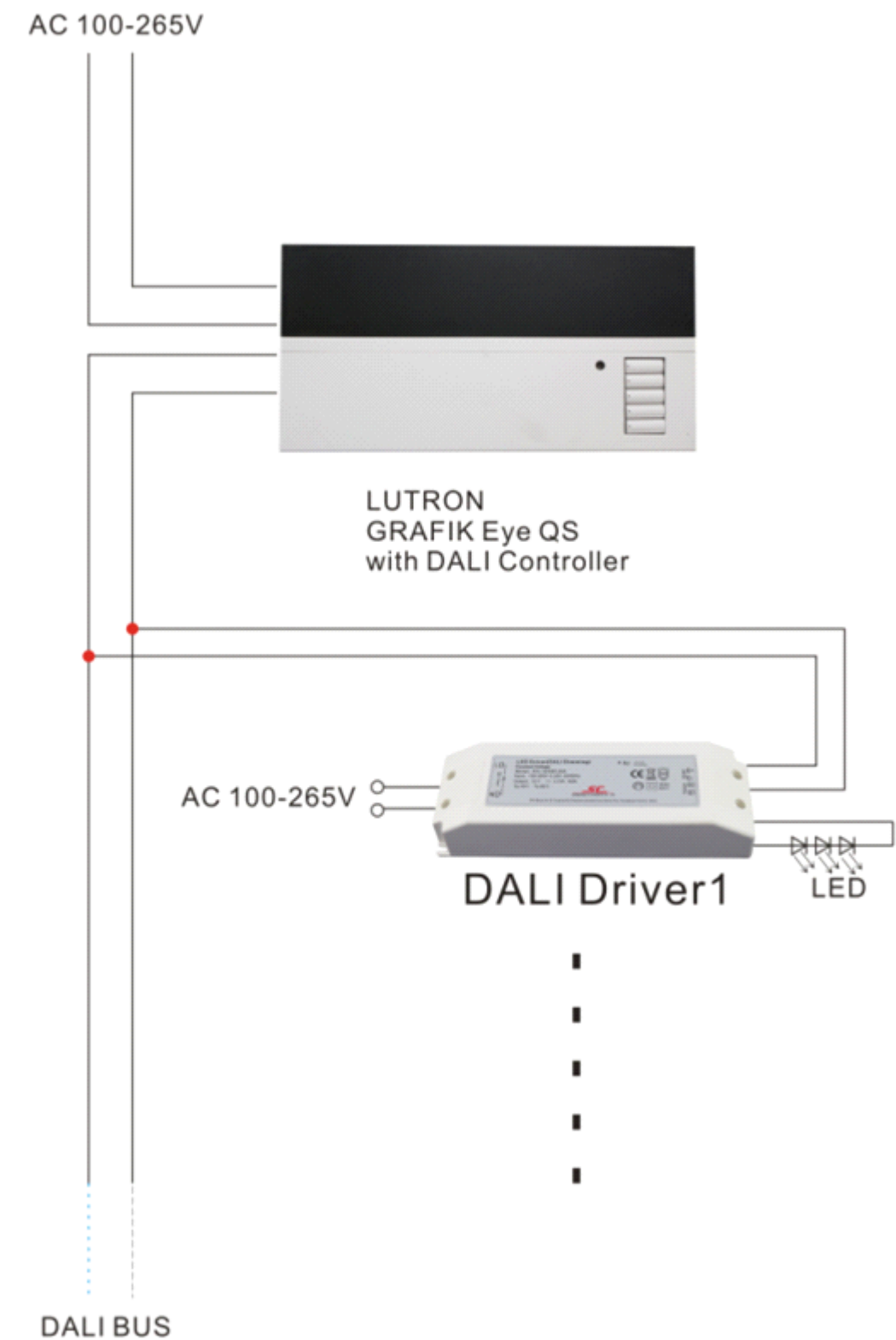※Any incorrect connecting of signal line and output line would damage the master.

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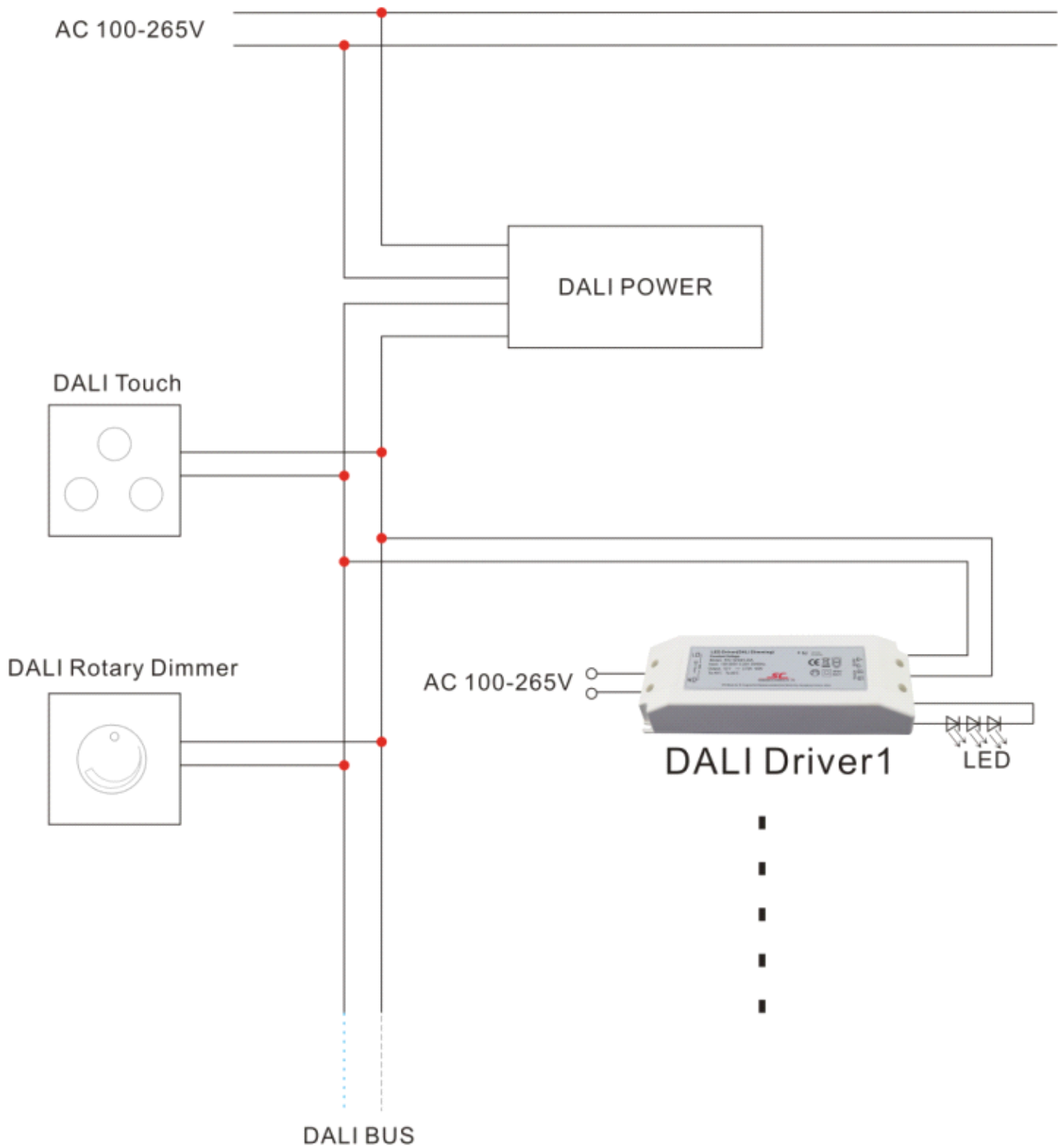
■Operation Reference No.1:

DALI Master

PC

DALI Touch

DALI Rotary Dimmer

AC 100-265V

DALI Driver1

LED

DALI Push switch

AC 100-265V

DALI Driver2

LED

DALI BUS

■Operation Reference No.2:

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AC 100-265V

LUTRON
GRAFIK Eye QS
with DALI Controller

AC 100-265V

DALI Driver1   LED

DALI BUS

■Operation Reference No.3:

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AC 100-265V

DALI POWER

DALI Touch

DALI Rotary Dimmer

AC 100-265V

DALI Driver1

LED

DALI BUS

■Derating Curve

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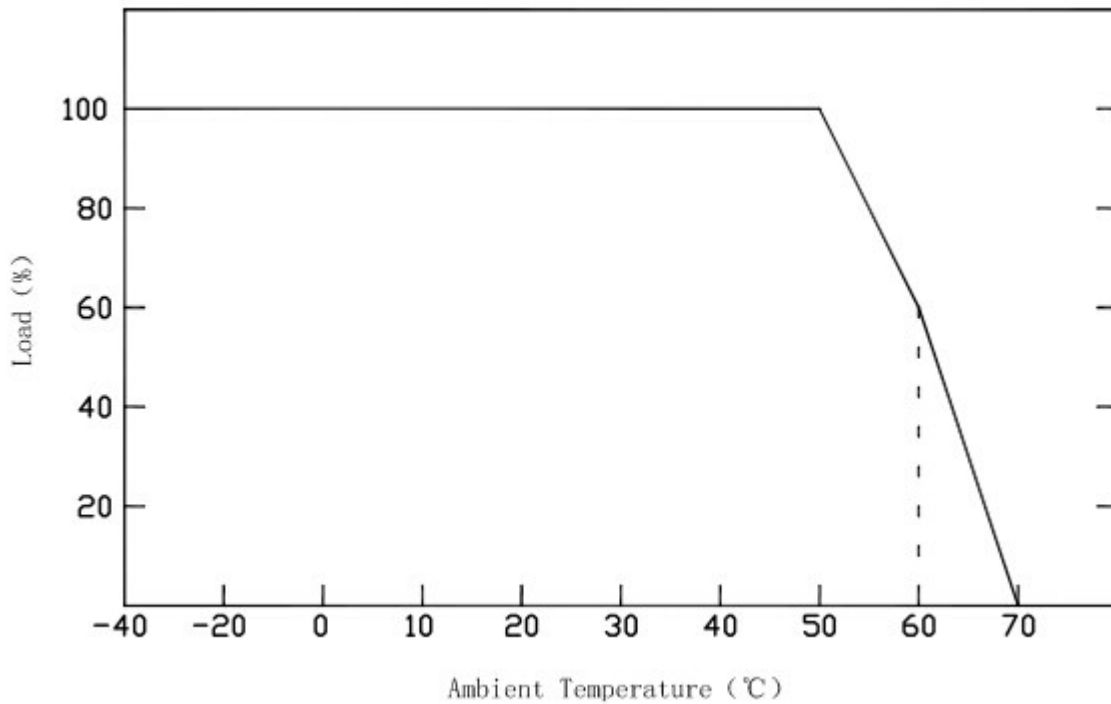
※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■Instruction:

1)This driver should be installed by qualified and professional person;
2)Please make sure the transformer is installed with adequate ventilation around it to allow for heat dissipation.
3)Ensure that wiring is correct before test in order to avoid light and power supply damage;
4)If driver Cannot work normally, don't maintain privately; Have any question, please contact Shengchang.

Any other question please feel free to contact