

DALI2 & PUSH 2 in 1 Dimmable driver - constant voltage KV-DP2-P series 30W



■ Features:

- Output constant Voltage (NFC regulation)
- Range: 100-277VAC
- Built-in active PFC function
- Efficiency up to 83%
- Protections: short circuit/ over load/ over temperature
- Cooling by free air convection; IP20 for indoor
- Dimming curve: Logarithmic (default) and Linear
- Dimming protocol: DALI Protocol IEC62386 ;PUSH-DIM
- NFC function to adjust output voltage and set address
- Dimming range: 0-100%, LED start at 0.1% possible
- Suitable for intelligent LED lighting

CE      IP20 SELV

■ Specification

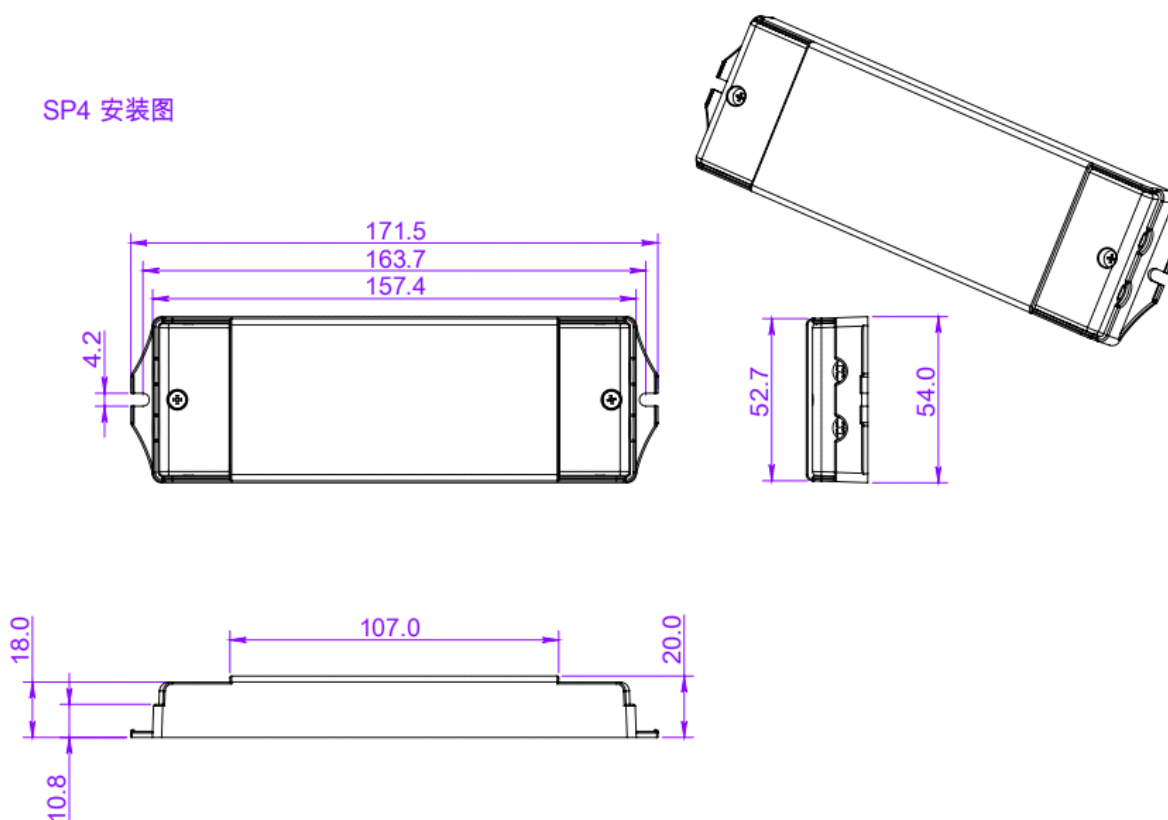
Model		KV-12030-DP2-P	KV-24030-DP2-P
Output	DC Voltage	12V (12-13.5V adjust by NFC)	24V (24-26V adjust by NFC)
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	2.5A	1.25A
	Rated power	30W	
	Load Regulation	±2%	
Input	Voltage Range	100-277VAC	
	Frequency Range	47 - 63Hz	
	Power Factor (Typ.) @ full load	PF≥0.98@120VAC PF≥0.95@230VAC PF≥0.90@277VAC (Full loading)	
	THD (Typ.) @ full load	<10%	
	Efficiency (Typ.) @ full load	80%@120VAC 83%@230VAC	
	AC Current(Max.)	0.4A	
	Inrush Current (Typ.)	60A, 50%, 9us @120VAC; 70A, 50% , 188us @230VAC 180A, 50% , 4.4us @277VAC	
Protection	Leakage current	<0.5mA	
	Short Circuit	Hiccup mode, recover automatically after fault condition is removed	
	Over Load	≤120% ,hiccup mode, recover automatically after fault condition is removed	
	Over temperature	100℃±10℃ Reduce output voltage, recovers automatically after temperature goes down	
Environment	Protection Class	II	
	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20 - 90%RH,non-condensing	
	Storage TEM.,Humidity	-40 - +80℃,10 - 95%RH	
	TEMP.coefficient	±0.03%/℃(0 - 50℃)	
Safety & EMC	Vibration	10~500Hz, 2G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
	Safety standards	EN61347-1 EN61347-2-13 (EU) & UL8750 UL1310 (US)	
	Withstand voltage	I/P-O/P:3.75KVAC (EU) & I/P-O/P:1.5KVAC (US)	
	Isolation resistance	I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25℃/70%RH	
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3 (EU) & FCC Part 15 B (US)	
Safety & EMC	EMC Immunity	EN61000-4-2,3,4,5,6 ,11, EN61547	

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Others	Weight	0.31KG
	Dimension	171.5*54*20mm (L*W*H)
	packing	290*215*140mm/20PCS/CTN G.W.:8.3KG/CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃of ambient temperature. 2. Tolerance: includes set up 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.	

■ Mechanical Specification

SP4 安装图


Input & Output wiring

※Input terminal with Live Wire(L) , Neutral Wire (N)

※Output LED SEC (LED+), output negative (LED-). Connected to LED Lamps

Dimming wiring

※Dimming wires are installed for Dimming terminals (No polar) and are connected to the DALI BUS when use DALI function .

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

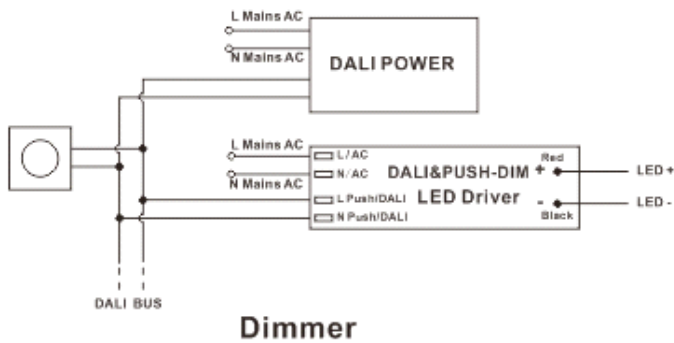
※Note: Any other requests we can customize.

Suggested wire diameter: primary: 0.75-2.5mm²; Secondary: 0.5-2.5mm²

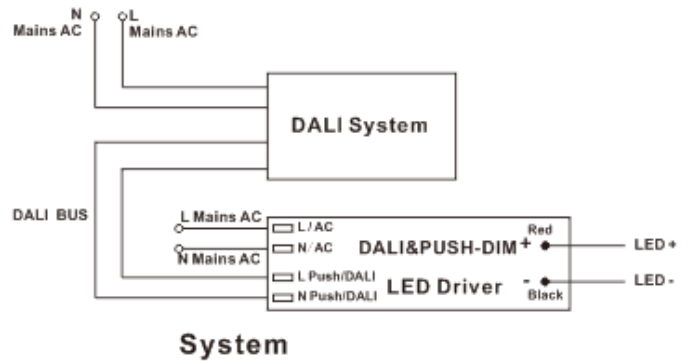
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■ **Dimming Operation**

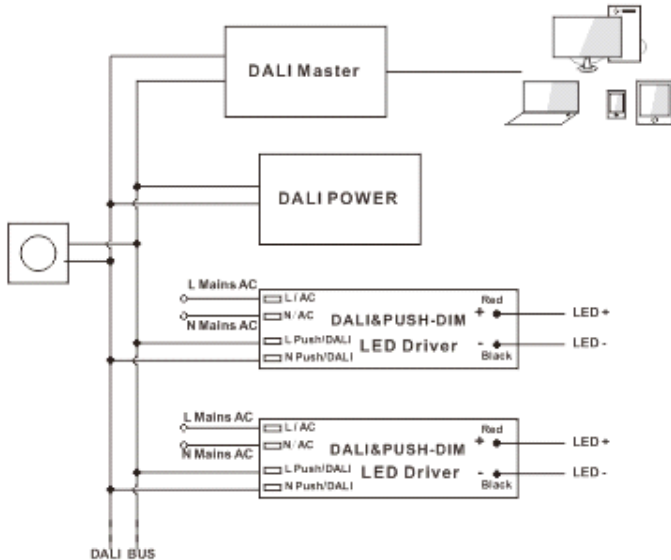
DALI Dimming Wiring Diagram1



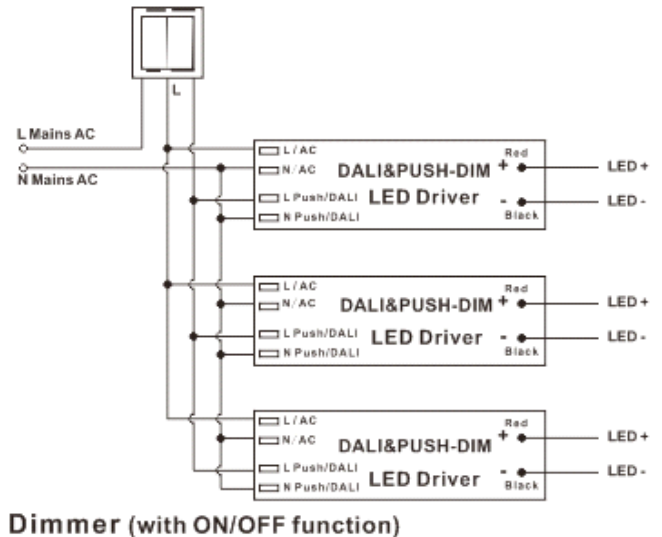
DALI Dimming Wiring Diagram2



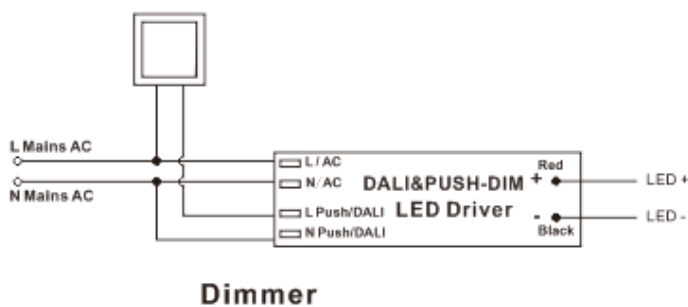
DALI Dimming Wiring Diagram3



Push-Dimming Wiring Diagram1

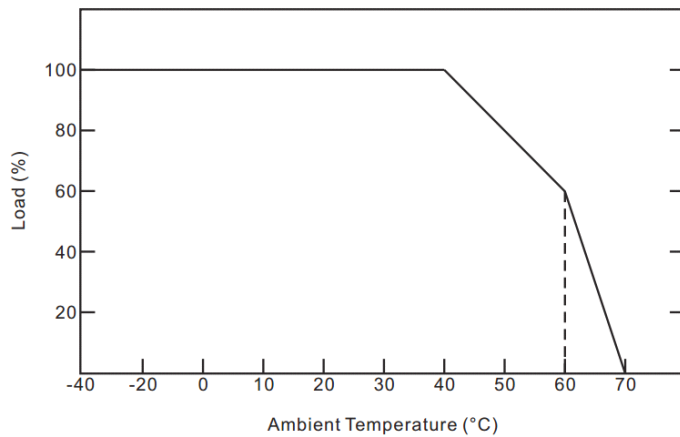


Push-Dimming Wiring Diagram2



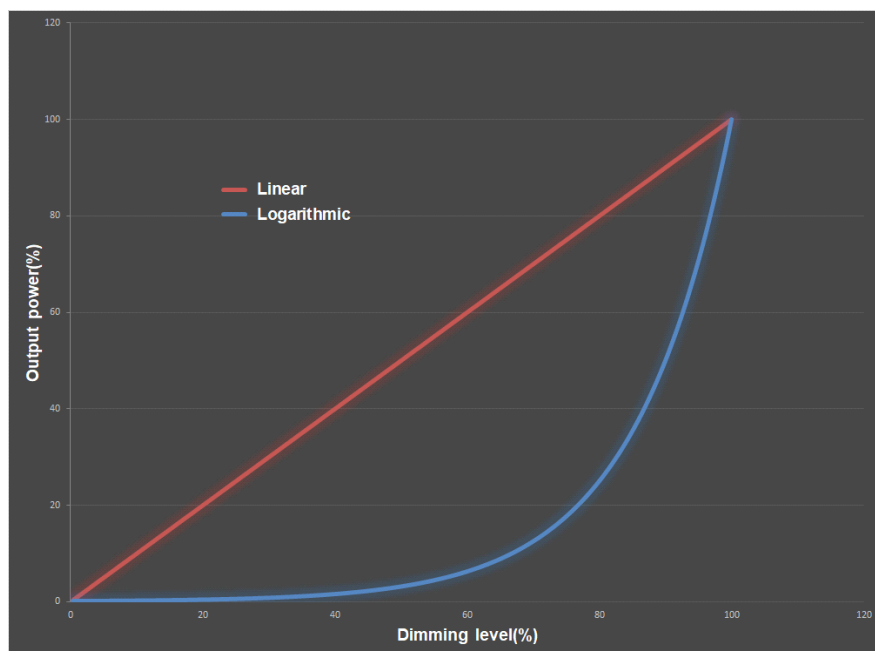
※Note: For DALI Dimming Wiring Diagram 3, please noted that only one DALI power is need in the DALI bus, so no extra DALI power is needed if the Master or Dimmer already includes the DALI Power.

■ Derating Curve



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

■ Dimming Curve



Note: Dimming curve: Logarithmic (default) and Linear

■ Instruction:

- 1) This driver should be installed by qualified and professional person;
 - 2) Please make sure the driver 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 with Zhuhai Shengchang.

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