

DALI & Push Dimmable driver - constant voltage 25W

Whole Family
 KV-XXXXX-DP 12V 24V DC
 25W 50W 75W 80W 100W 120W
 150W 200W 300W 320W 360W



■ Features:

- Output constant Voltage
- Range: 100-265VAC
- Built-in active PFC function
- Efficiency up to 82%
- Protections: short circuit/over load /over temperature
- Cooling by free air convection
- IP20 design for indoor installation.
- Dimming function: Built in DALI interface dimming function conform to DALI Protocol IEC62386
- Push dimming function
- Dimming range: 0-100%, LED start at 0.1% possible
- Suitable for intelligent LED lighting



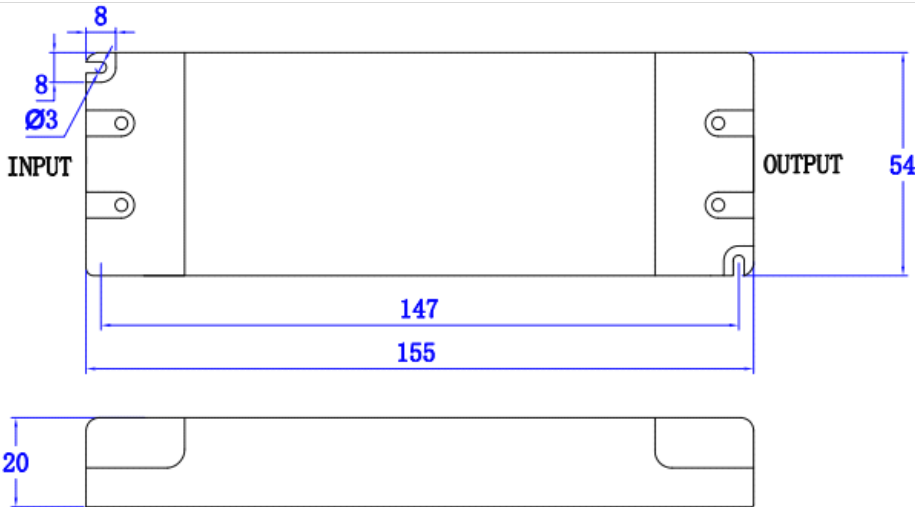
■ Specification

Model		KV-12025-DP	KV-24025-DP
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	2.08A	1.04A
	Rated power	25W	
	Load Regulation	±2%	
Input	Voltage Range	100-265VAC	
	Frequency Range	47 - 63Hz	
	Power Factor (Typ.) @ full load	PF≥0.96 / 120VAC PF≥0.9/ 230VAC (Full loading)	
	THD (Typ.) @ full load	<20%	
	Efficiency (Typ.) @ full load	77%	82%
	AC Current (Max.)	0.32A	
	Inrush Current (Typ.)	1.48A/120VAC 16A/230VAC	
	Leakage current	<0.5mA	
Protection	Short Circuit	constant current mode, recover automatically after fault condition is removed	
	Over Load	≤120% constant current limiting, recover automatically after fault condition is removed	
	Over temperature	100°C±10°C	
	Protection Class	II	
Environment	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20 - 95%RH ,non-condensing	
	Storage TEM.,Humidity	-40 - +80°C, 10 - 95%RH	
	TEMP.coefficient	±0.03%/°C (0 - 50°C)	
	Vibration	10~500Hz, 2G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety & EMC	Safety standards	EN61347-1:2015 EN61347-2-13:2014 EN62493:2010 IP20	
	Withstand voltage	I/P-O/P:3.75KVAC	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3	
	EMC Immunity	EN61000-4-2,3,4,5,6 ,11, EN61547	

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Others	Net Weight	0.21KG
	Dimension	155*54*20mm (L*W*H)
	packing	350*240*130mm /40PCS/CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C 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



LED Driver (DALI & PUSH Dimming 2 in 1)

Constant Voltage • tc

Model: KV-12025-DP

Input: 100-265V~ 0.33A 50/60Hz

Output: 12V--- 2.08A 25W

ta: 50°C tc: 90°C

0.5mm²-2.5mm²
20-14 AWG
INPUT
L
N

0.5mm²-2.5mm²
20-14 AWG
OUTPUT
+
-

PUSH DIM
corridor FUNCTION

DALIMING
DALI
DAN

L - DALI
N - DAN

ZHUHAI SHENGCHANG ELECTRONICS CO.,LTD. Made in China

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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 .
- wire (N) is connected to AC (N) while and wire (L) is connected to Push dim switch dimmer(L) when use Push function.
- ※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.
- ※Note:

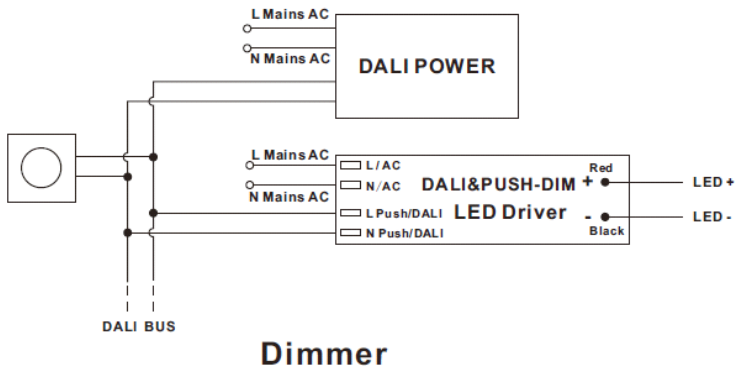
Any other requests we can customize.

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

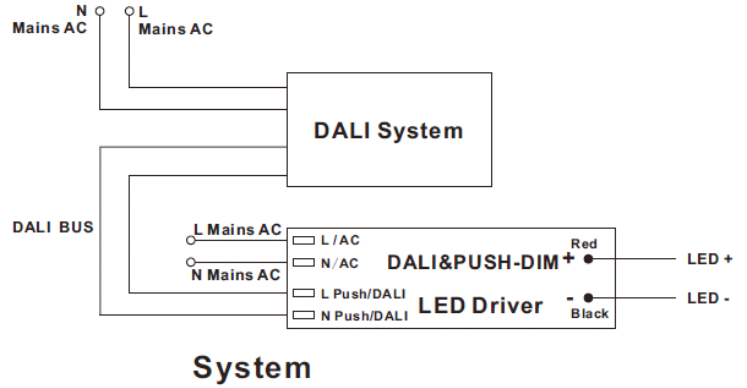
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■ Dimming Operation

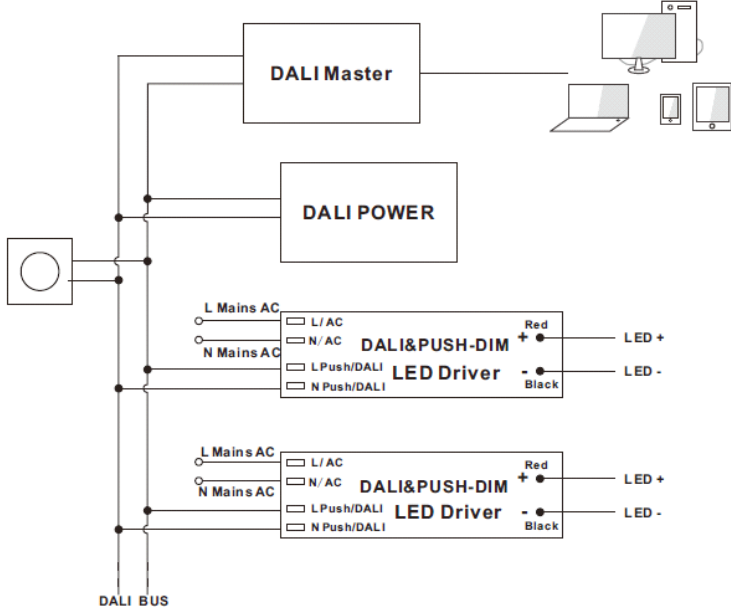
DALI Dimming Wiring Diagram1



DALI Dimming Wiring Diagram2

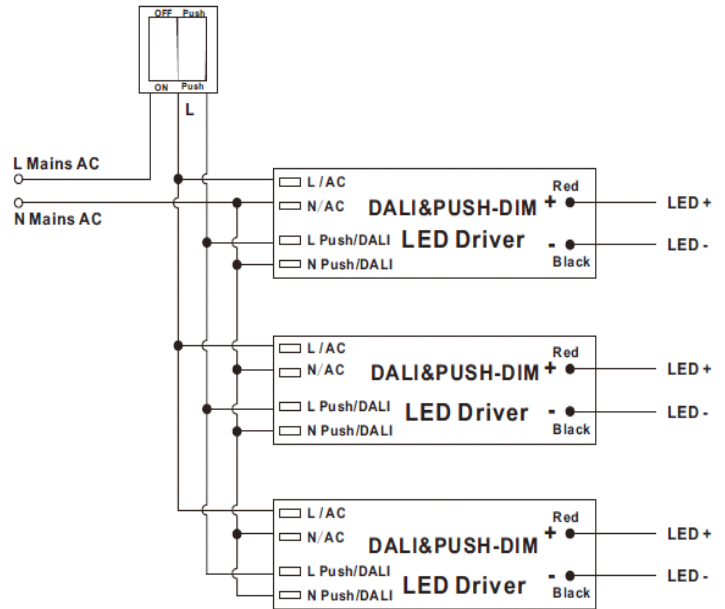


DALI Dimming Wiring Diagram3



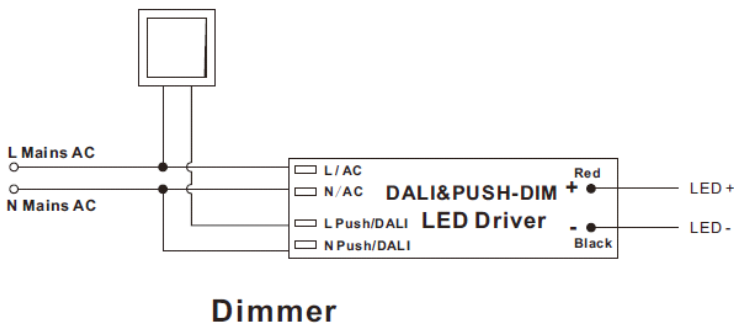
PC+DALI Master+DIMMER

Push-Dimming Wiring Diagram1



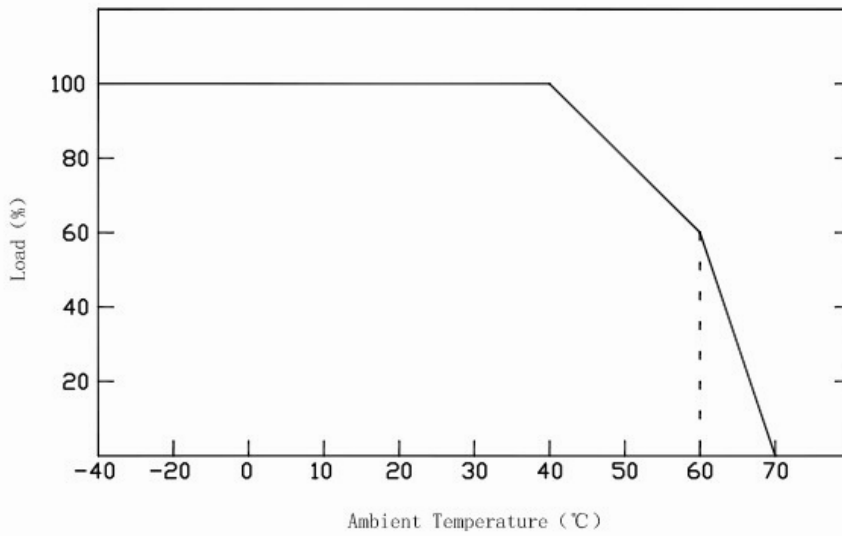
Dimmer (with ON/OFF function)

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.

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Derating Curve

※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 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 Zhuhai Shengchang.

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