

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 84%

·Protections: short circuit/over load/ over temperature

·Cooling by free air convection

·IP20 for indoor

·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

# **C**€ ⊕ ⊕ △ □ **½** IP20SELV

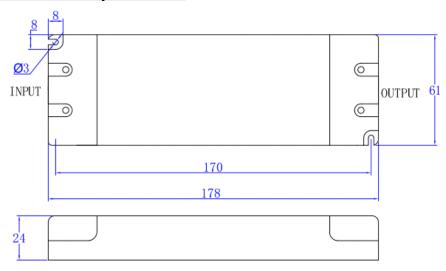
# ■ Specification

Model		KV-12050-DP	KV-24050-DP
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	4.16A	2.08A
	Rated power	50W	
	Load Regulation	±2%	
Input	Voltage Range	100-265VAC	
	Frequency Range	47 - 63Hz	
	Power Factor (Typ.) @ full load	PF≥0.99@120VAC PF≥0.95@230VAC	(Full loading)
	THD (Typ.) @ full load	<20%	
	Efficiency (Typ.) @ full load	81%	84%
	AC Current (Max.)	0.64A	
	Inrush Current (Typ.)	2.16A/120VAC 13A/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℃±10℃	
		Shut down o/p voltage, recovers automatically after temperature goes down	
	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℃,10 - 95%RH	
	TEMP.coefficient	±0.03%/℃ (0 - 50℃)	
	Vibration	10∼500Hz, 2G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 IP66	
	Withstand voltage	I/P-O/P:3.75KVAC	
	Isolation resistance	I/P-O/P I/P-FG O/P-FG: 100MΩ/500VDC/25°C/70%RH	
	EMC Emission	EN55015:2013 EN61000-3-2 ,EN61000-3-3	



	EMC Immunity	EN61000-4-2,3,4,5,6 ,11, EN61547:2009	
Others	Weight	0.35Kg	
	Dimension	178*61*24mm (L*W*H)	
	packing	290*215*140mm/20pcs /CTN	
Notes	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> </ol>		
	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





#### **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:

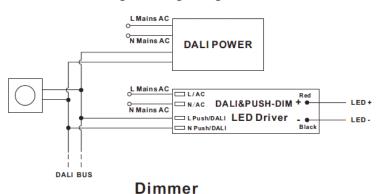
Any other requests we can customize.

Suggested wire diameter: primary: 0.5-2.5mm<sup>2</sup>; Secondary: 0.5-2.5mm<sup>2</sup>

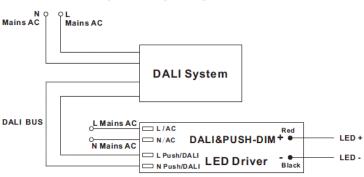


#### ■ Dimming Operation

# DALI Dimming Wiring Diagram1

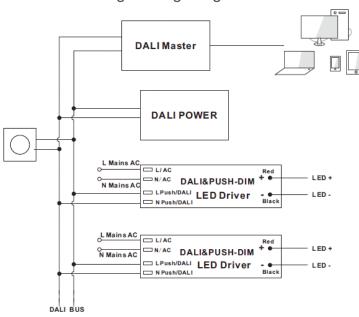


# DALI Dimming Wiring Diagram2

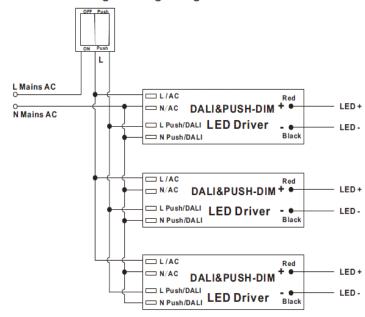


**System** 

# **DALI Dimming Wiring Diagram3**



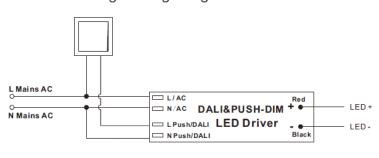
Push-Dimming Wiring Diagram1



Dimmer (with ON/OFF function)

#### PC+DALI Master+DIMMER

## Push-Dimming Wiring Diagram2

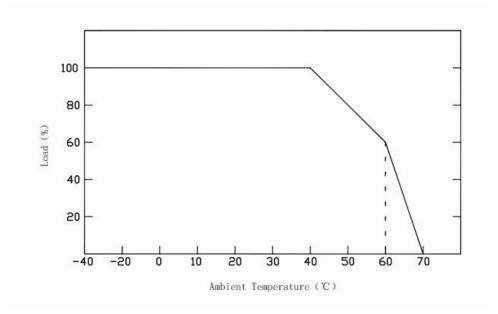


Dimmer

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.

#### ■ 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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