

DALI-2/PUSH 2 in 1 CCT Dimmable LED driver 60W

KV-2C-DP2 Series 60W

Whole Family: KV-XXXXX-2C-DP2 12V/ 24V/ 36V/ 48V DC [60-200W]



Features

Output:	Constant Voltage
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 88.5%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection aluminum housing, for dry, damp locations; IP20
Dimming function:	DALI-2 & PUSH 2 in 1 dimming (CCT) , PWM output frequency 4KHz Stroboscopic exemption
Dimming range:	0-100% dimming depth: 0.1%
NFC function:	Fine tune the output voltage, write and read address
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

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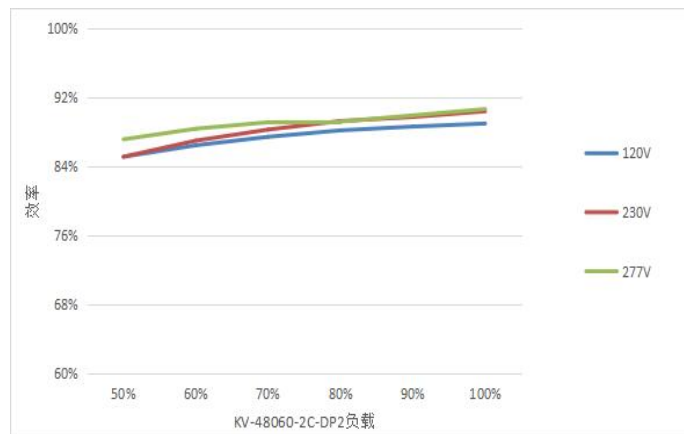
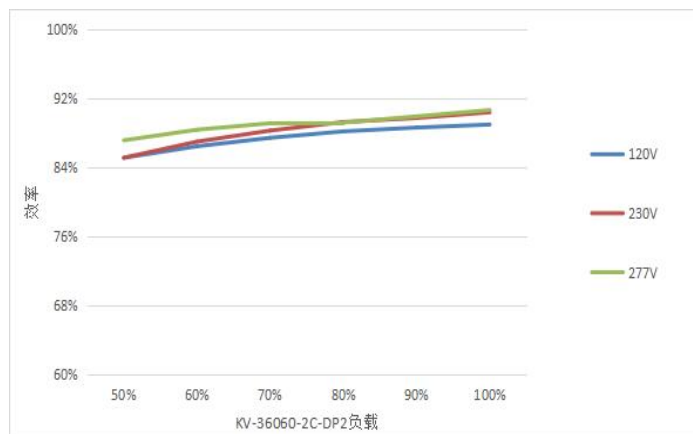
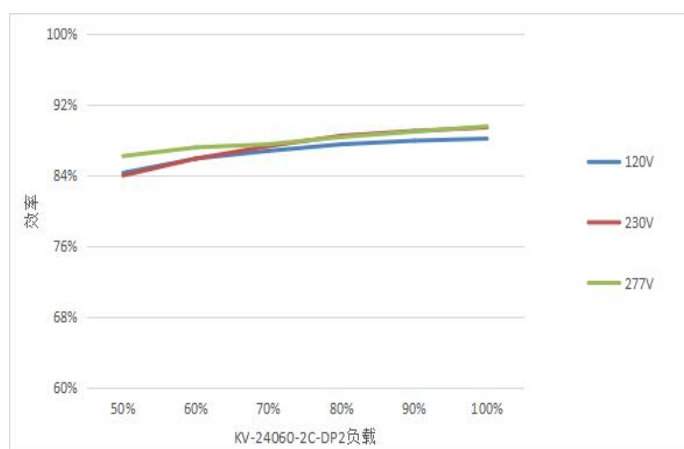
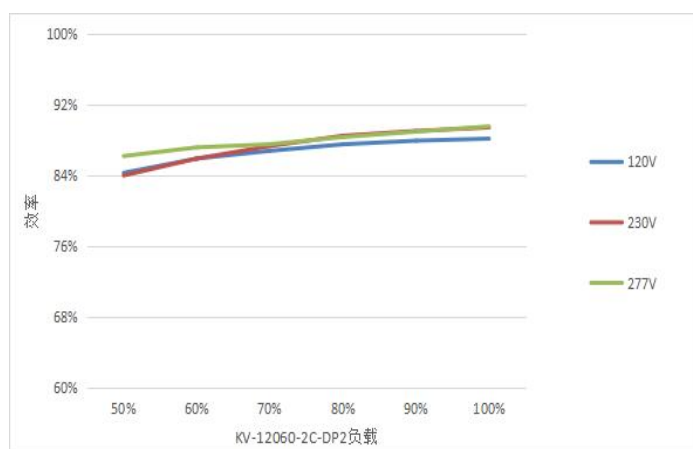
Specification

Model		KV-12060-2C-DP2	KV-24060-2C-DP2	KV-36060-2C-DP2	KV-48060-2C-DP2
Certificate		CE、ENEC、UL、cUL、FCC、SELV、DALI-2			
Output	DC Voltage	12V (12-13.5V adjust by NFC)	24V (24-26V adjust by NFC)	36V (36-38V adjust by NFC)	48V (48-50V adjust by NFC)
	Voltage Tolerance	±0.2V	±0.2V	±0.2V	±0.2V
	Voltage Regulation	0.5%			
	Rated current	CW+WW=5A	CW+WW=2.5A	CW+WW=1.67A	CW+WW=1.25A
	Rated power	60W			
	Load Regulation	2%	1%	1%	1%
Input	Voltage Range	100-277VAC			
	Frequency Range	47 - 63Hz			
	Power Factor (Typ.) @ full	PF≥0.98@120VAC PF≥0.96@230VAC PF≥0.94@277VAC			
	THD(Typ.) @ full load	≤10%@120VAC ≤10%@230VAC ≤15%@277VAC			
	Efficiency(Typ.) @ full load	86.5%@120VAC	86.5%@120VAC	86.5%@120VAC	86.5%@120VAC
		88.5%@230VAC	88.5%@230VAC	88.5%@230VAC	88.5%@230VAC
		88.5%@277VAC	88.5%@277VAC	88.5%@277VAC	88.5%@277VAC
	AC Current (Max.)	0.8A			
	No-load power	0.7W	0.65W	0.68W	0.67W
	Standby power	0.45W	0.43W	0.43W	0.43W
Protection	Inrush Current (Typ.)	16A, 50%, 204us @120VAC; 60.8A, 50%, 104us @230VAC 37.6A, 50%, 312us @277VAC			
	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			
Environment	Over temperature	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops.			
	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 UL8750 CAN/CSA-C22.2 No. 250.13			
	Withstand voltage	I/P-O/P:3.75KVAC (Europe) I/P-O/P:1.80KVAC (America)			
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH			
Others	EMC Emission	EN55015 EN61000-3-2,3 (≥50%load) FCC Part 15 Subpart B			
	Net Weight	0.38Kg	0.38Kg	0.38Kg	0.38Kg

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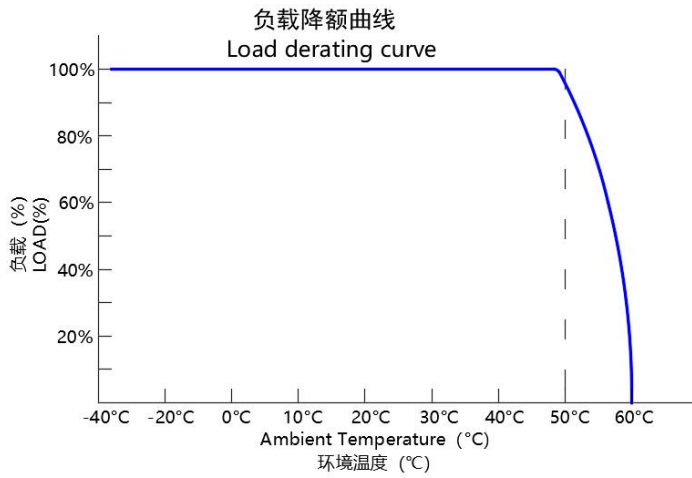
	Dimension	192.5*62*24mm (L*W*H)
	Packing	280*210*160mm 20pcs /CTN
Notes	<ol style="list-style-type: none"> 1. All America parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. 2. All Europe parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 3. Tolerance: includes set up tolerance and load regulation . 	

Efficiency Curve (efficiency vs output load)



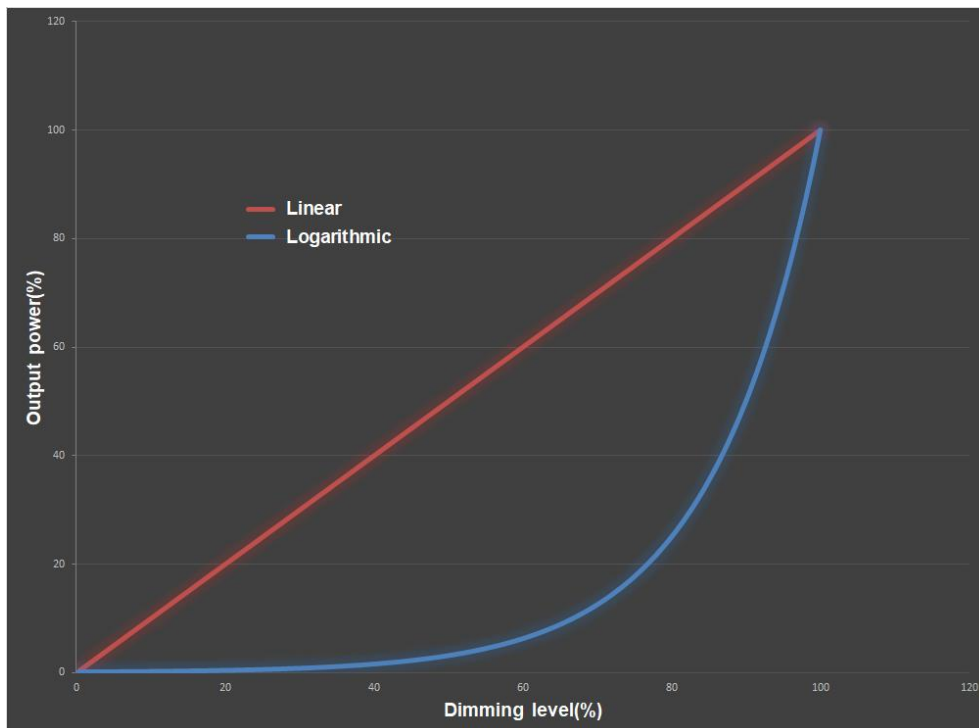
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Derating Curve (output load vs TEMP.)



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

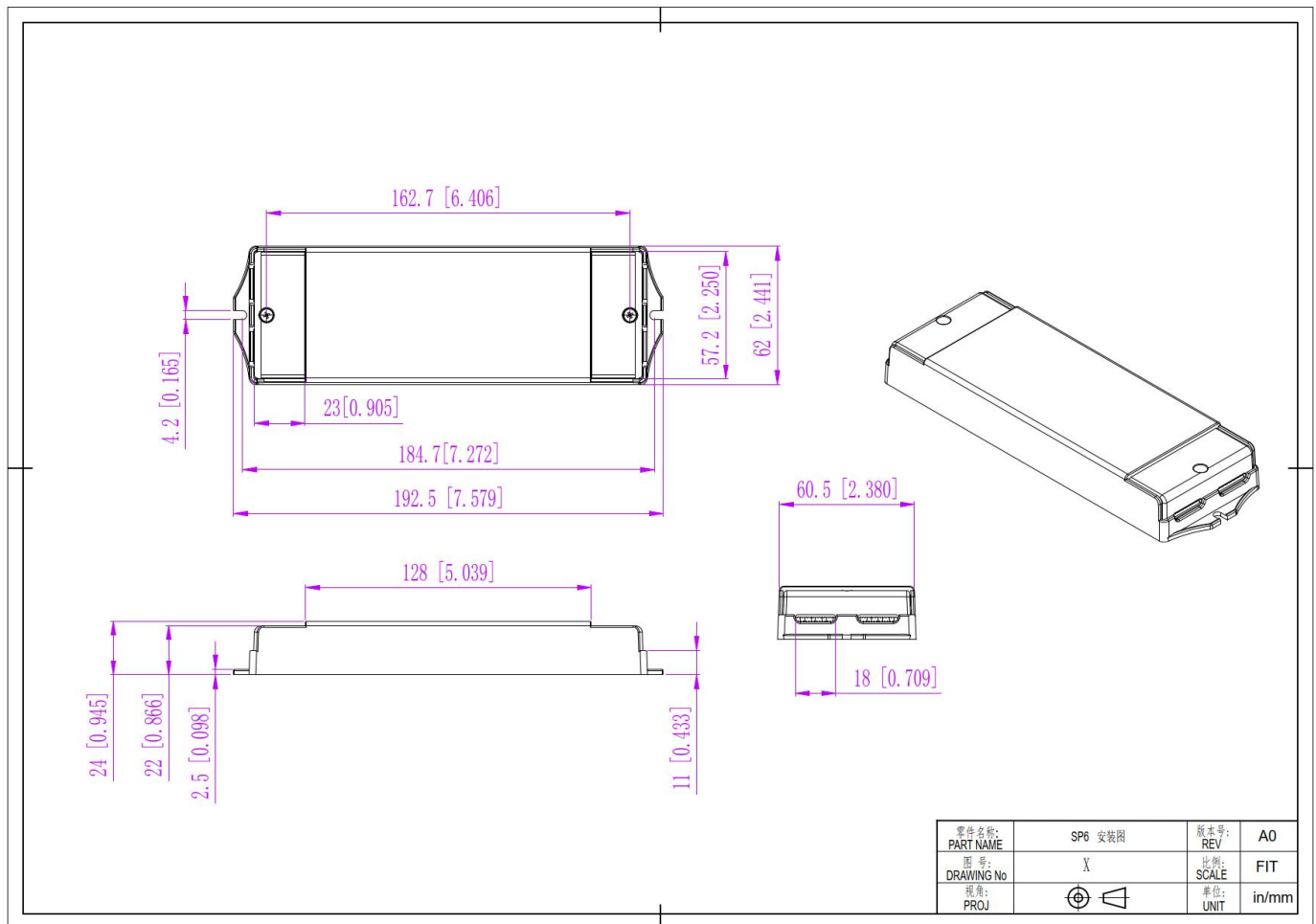
Whole Brightness Dimming Curve



Note: Logarithmic dimming curve and Linear dimming curve for choice
Logarithmic (default)

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Mechanical Specification



12-48V Version

1. Input with DG128 terminals 3P: Live Wire AC (L), Neutral Wire AC(N) .
2. Output LED SEC with DG128 terminals 3P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. DALI or PUSH Dim. terminals with DG128 terminals 3P.when DALI dimming, signal dimming DA1, DA2 (No polar) connected to the BUS of the DALI Master; when PUSH dimming, (N) is connected to AC (N) while white (L) is connected to Push dim switch dimmer(L) .

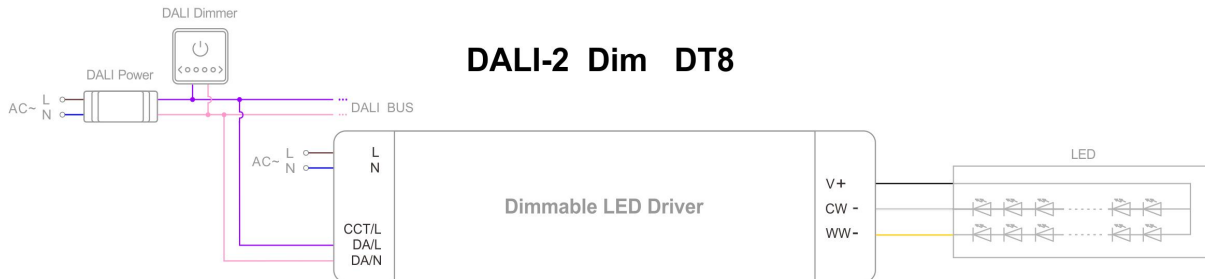
Warm tips:

1. Suggested wire diameter: Input 0.75mm² - 2mm²; Output: 0.5mm² - 2mm².
2. Any other requests for cable, we can customized.

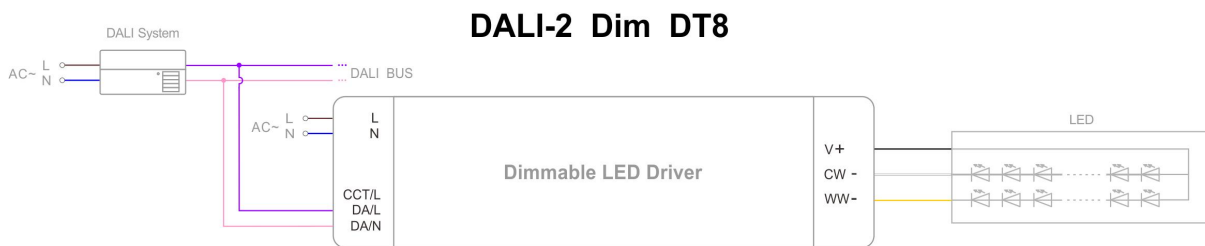
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Dimming Operation and Connecting Diagram

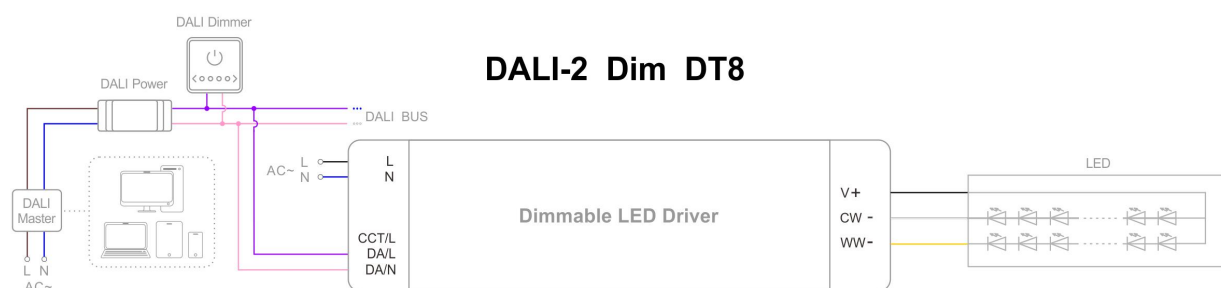
- Using DALI-2 dimming with DALI power and dimmer



- Using DALI-2 dimming with DALI system and DALI bus

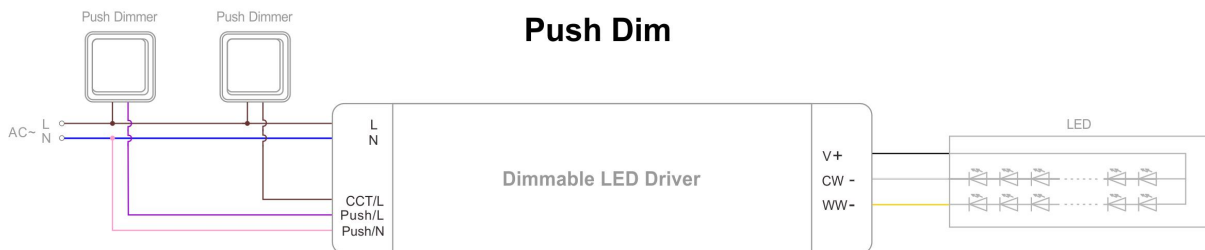
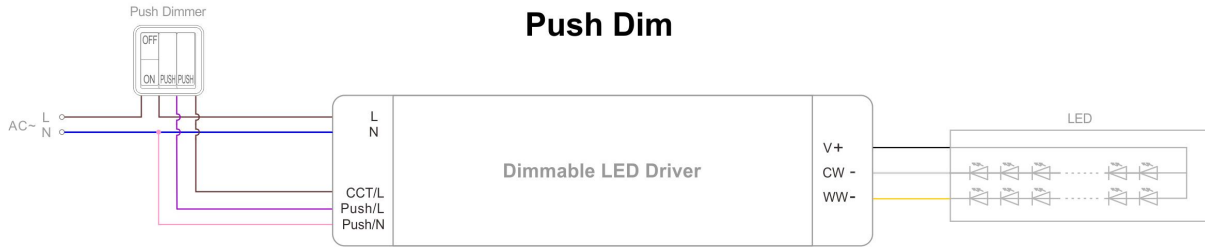


- Using DALI-2 dimming with intelligent device, DALI master and dimmer



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● Using PUSH dimming with dimmer (on & off function)



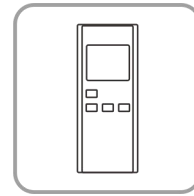
NFC Function



RDM



SetNFC APP



NFC Handheld devices

● Address settings:

①RDM setting address:

Set the address by the RDM device. For detailed operation, please refer to RDM device instruction manual.

②NFC setting address:

The address can be read and written by a mobile with Easy NFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the driver.

NFC voltage regulation level										
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
12V	12V	12.16V	12.32V	12.48V	12.64V	12.80V	12.96V	13.12V	13.28V	13.50V
24V	24V	24.22V	24.44V	24.66V	24.88V	25.10V	25.32V	25.54V	25.66V	26.00V
36V	36V	36.22V	36.44V	36.66V	36.88V	37.10V	37.32V	37.54V	37.66V	38.00V
48V	48V	48.22V	48.44V	48.66V	48.88V	49.10V	49.32V	49.54V	49.66V	50.00V

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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 questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn/en