

KV-5C-DP2D Series 200W

Whole Family: KV-XXXXX-5C-DP2D 12V/ 24V/ 36V/ 48V DC - [60W 100W 120W 150W 200W]



FC Class P TYPE HL SELV (RoHS Reach







1 / 11



Features

Output: Constant Voltage Range: 100-277VAC

PFC design: Built-in active PFC function

Up to 93% Efficiency:

Protections: Short circuit/ over load/ over temperature

Heat dissipation: Cooling by free air convection

IP66(EU); Full Aluminum housing, for dry, damp and wet location (US) Waterproof performance: Design features: Add NFC function to set address and adjust output voltage slightly;

Flicker free, 4KHZ PWM output to reach the exemption level

Dimming function: DALI-2 dimming. Digital dimming with Logarithmic curve (default) or Linear curve

Dimming range: 0-100% dimming depth: 0.1%

Application: Suitable for LED lighting and moving sign applications

Warranty: 5 years warranty

> A/0 info@scpower.net.cn www.scpower.net.cn/en

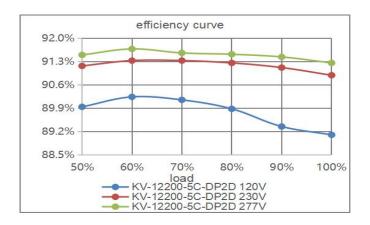


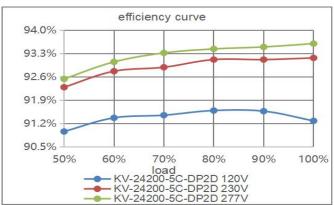
Specification

Model		KV-12200-5C-DP2D	KV-24200-5C-DP2D	KV-36200-5C-DP2D	KV-48200-5C-DP2D				
Certificate		UL / FCC / Class P / ENEC(Pending) / CE / ROHS / Reach / DALI2							
Output	DC Voltage	12V 24V 36V 48V							
	DC Voltage	(12-13.5V adjust by NFC)	(24-26V adjust by NFC)	(36-38V adjust by NFC)	(48-50V adjust by NFC)				
	Voltage Tolerance	±0.2V							
	Voltage Regulation	0.5%							
	Rated current	R+G+B+CW+WW	R+G+B+CW+WW	R+G+B+CW+WW	R+G+B+CW+WW				
	Nated Current	=16.67A	=8.33A	=5.56A	=4.17A				
	Rated power	200W							
	Load Regulation	2% 1%							
	Voltage Range	100-277VAC							
	Frequency Range	47 - 63Hz							
	Power Factor@ full load	PF≥0.98@120VAC PF≥0.97@230VAC PF≥0.95@277VAC							
	THD(Typ.) @ full load	≤10%@120VAC ≤10%@230VAC ≤15%@277VAC							
Input	Efficiency(Typ.)	89%@120VAC	91%@120VAC	91%@120VAC	91%@120VAC				
iliput	@ full load	91%@230VAC	93%@230VAC	93%@230VAC	93%@230VAC				
	@ iuii ioad	91%@277VAC	93%@277VAC	93%@277VAC	93%@277VAC				
	AC Current (Max.)	2.3A							
	Inrush Current (Typ.)	42.4A, 496us@50%120VAC 110A, 49.2us@50%230VAC 68A, 380us @50%277VAC							
	Leakage current	<0.5mA							
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed							
	Over Load	≤120% Hiccup mode, recover automatically after fault condition is removed							
	Ambient temperature	Shell surface temp.100℃±10℃ shut down o/p voltage, automatically recover after temp.dro							
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 non-condensing							
	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(EU) & UL8750 UL1310(US)							
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (EU)							
	Withstand voltage	I/P-O/P:1.8KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)							
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH							
	EMC Emission	EN55015 EN61000-3-2,3 (≥50%load) (EU) & FCC Part 15 Subpart B(US)							
Others	Net Weight	1.05Kg							
	Dimension	279*78*25.1mm (L*W*H)							
	Packing	330*330*215mm 20pcs /CTN 22KG/CTN							
Notes	-	•	e measured at rated load equired to ensure a long		emperature.				

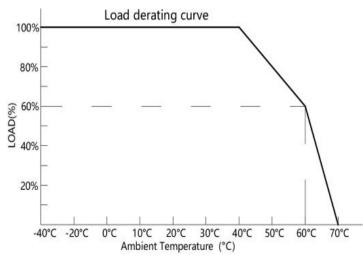


Efficiency Curve (efficiency vs output load)





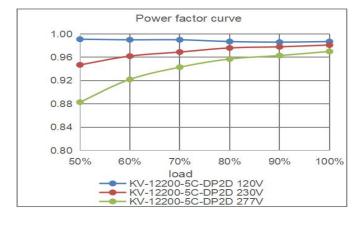
Derating Curve (output load vs TEMP.)

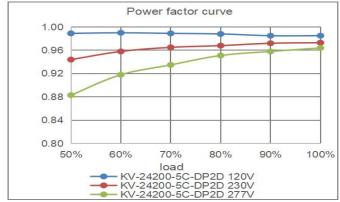


- 1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
- 2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise.

 Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

Power Factor Curve

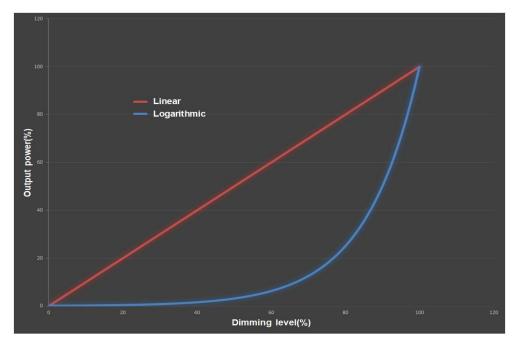






DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW

Whole Brightness Dimming Curve

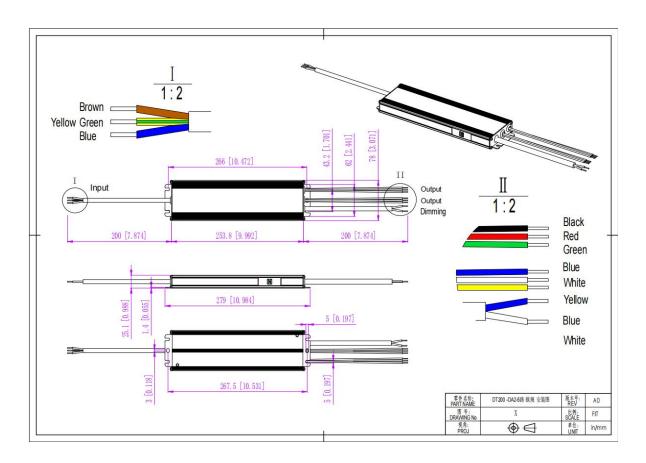


Note: Logarithmic dimming curve and Linear dimming curve for choice Logarithmic (default)



DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW

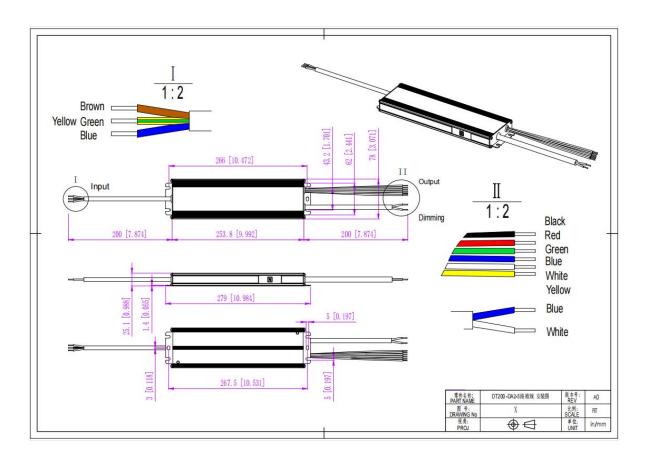
Mechanical Specification (For European Market)



12V&24V Version



DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW



36V&48V Version

- 1. Input cable 3*1.0mm², the Brown cable to (L), the Blue cable to (N), and the Yellow & Green cable to (FG).
- 2. Output cable 14AWG(12V),16AWG(24V),18AWG(36V/48V),Black cable (+) to Positive side(+),Red cable(-),Green cable(-),Blue cable(-),White cable(-) and Yellow(-) to Negative side (-).
- 3. Dimming cable 2*0.824mm², Blue DA/N and White DA/L (No polar) connected to the DALI BUS when use DALI function.

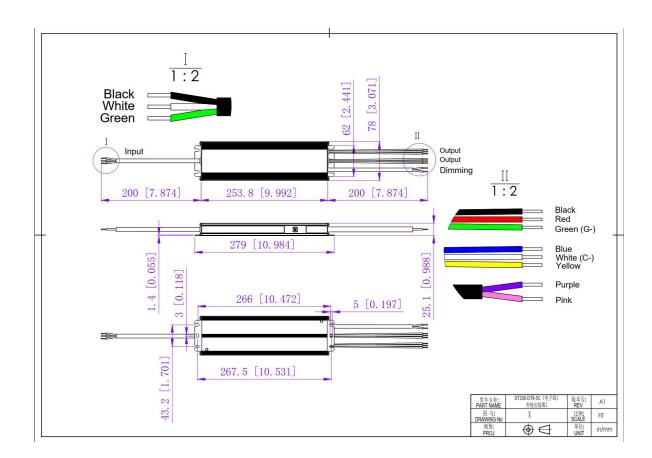
Warm tips:

1. Any other requests for, we can customized.



DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW

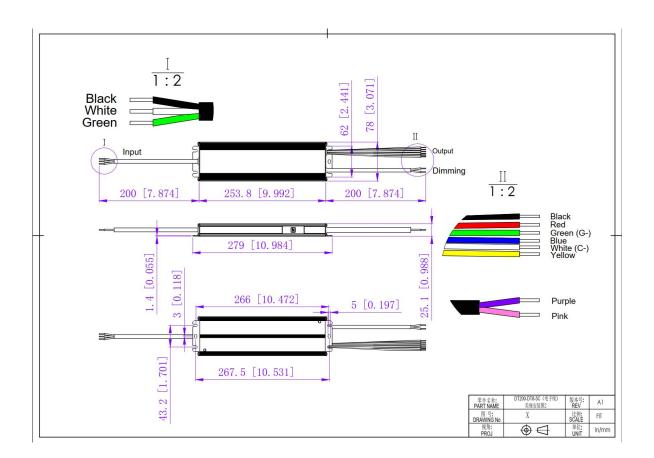
Mechanical Specification (For North American Market)



12V&24V Version



DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW



36V&48V Version

- 1. Input cable 3*18AWG, the Black cable to (L), the White cable to (N), and the Green cable to (G).
- 2. Output cable 14AWG(12V),16AWG(24V),18AWG(36V/48V),Black cable (+) to Positive side(+),Red cable(-),Green cable(-),Blue cable(-),White cable(-) and Yellow(-) to Negative side (-).
- 3. Dimming wire 2*18AWG, Purple cable(DA1), Pink cable(DA2).

Warm tips:

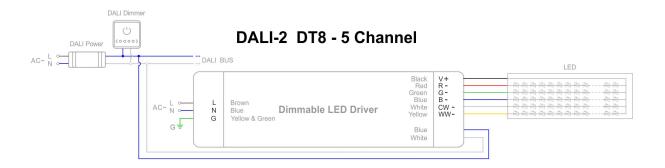
1. Any other requests for, we can customized.



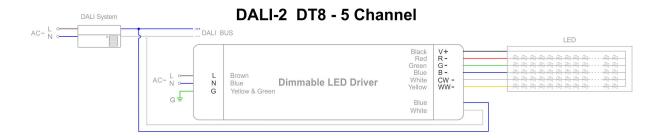
DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW

Dimming Operation and Connecting Diagram (For European Market)

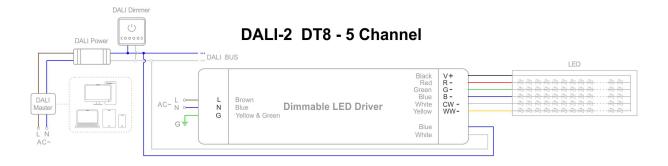
• Using DALI-2 dimming with DALI power and dimmer



Using DALI-2 dimming with DALI system and DALI bus



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





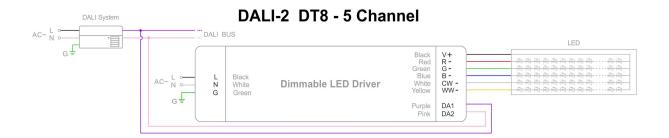
DALI-2 Dimmable Constant Voltage LED driver 200W 5CH for RGBTW/RGBCW

Dimming Operation and Connecting Diagram (For North American Market)

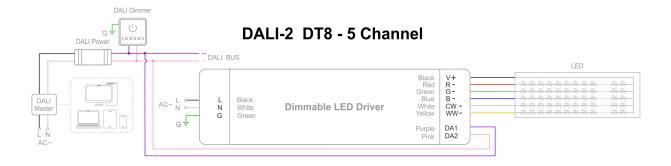
• Using DALI-2 dimming with DALI power and dimmer



Using DALI-2 dimming with DALI system and DALI bus



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





NFC Function





ProNFC APP

NFC Handheld devices

Address settings:

NFC setting address:

The address can be read and written by a mobile with ProNFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the DALI-2 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	13.5V		
24V	24V	24.22V	24.44V	24.66V	24.88V	25.10V	25.32V	25.54V	25.66V	26.0V		
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	49.1V	49.32V	49.54V	49.66V	50.00V		

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