

AC input DMX512 dimmable LED C.V. driver K VX-A series 200W

K VX-3C-A Series 200W

Whole Family: K VX-XXXXX-3C-A 12V/ 24V/ 48VDC - [30W 60W 80W 96W 100W 120W 150W 200W 300W]



Class P

TYPE HL

SELV



RoHS



Features

Output:	Constant Voltage
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 93.5%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection aluminum housing, for dry, damp, wet locations
Dimming function:	DMX512 dim. Digital dimming, single light control, DMX512 signal-side isolation
Dimming range:	0.1-100%
NFC function	Fine tune the output voltage, write and read address
ProNFC:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

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Specification

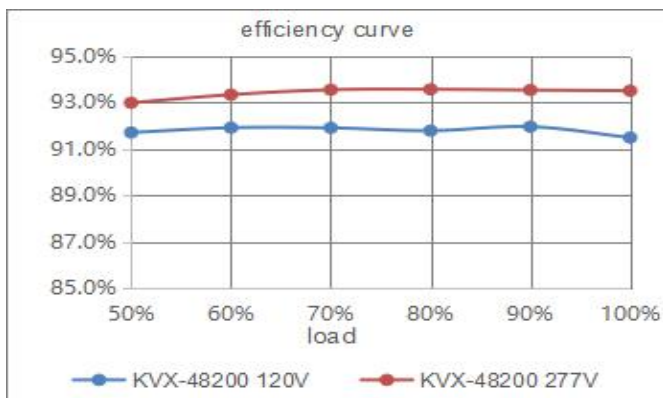
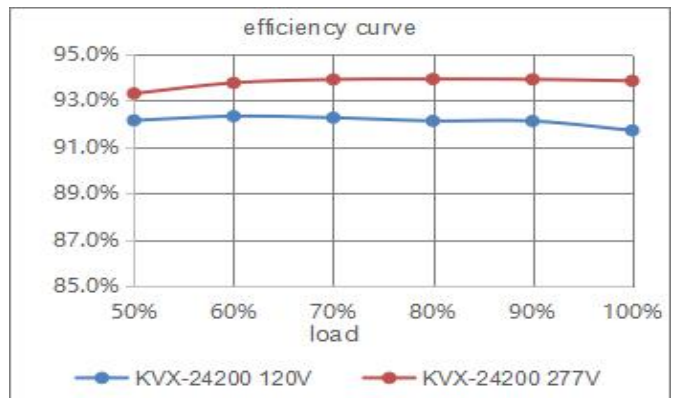
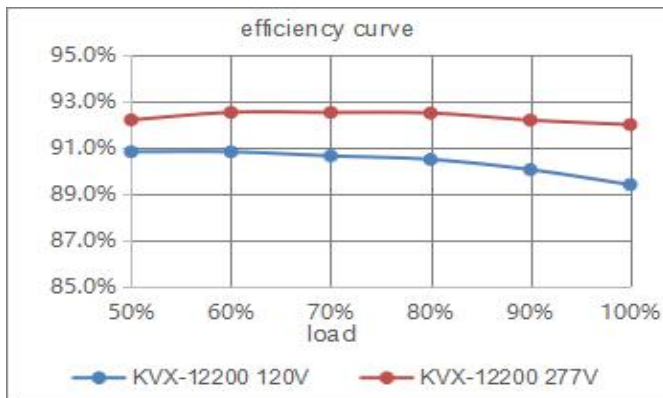
Model		KVX-12200-3C-A	KVX-24200-3C-A	KVX-48200-3C-A
Certificate		UL / cUL / FCC / SELV / CE / Class P / RoHS / REACH		
Output	DC Voltage	12V (12-13.5Vadjust by NFC)	24V (24-26V adjust by NFC)	48V (48-50V adjust by NFC)
	Voltage Tolerance	±0.5V		
	Voltage Regulation	0.5%		
	Rated current	R+G+B=3*5.56A	R+G+B=3*2.78A	R+G+B=3*1.39A
	Rated power	200W		
	Load Regulation	2%	1%	
Input	Voltage Range	100-277VAC		
	Frequency Range	47 - 63Hz		
	Power Factor@ full load	PF≥0.98@120VAC PF≥0.95@277VAC		
	THD(Typ.) @ full load	≤10%@120VAC ≤15%@277VAC Notes: Regarding LED driver load types where the driver meets the harmonic emissions requirements of ANSI C82.77-10.		
	Efficiency @ full load	89.5%@120VAC 91.5%@277VAC	92%@120VAC 93.5%@277VAC	91.5%@120VAC 93%@277VAC
	AC Current (Max.)	2.3A		
	Inrush Current (Typ.)	53.7A, 47us@50%120VAC 124A,108us@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		
	Over temperature	Shell surface temp.100℃ ± 10℃ shut down o/p voltage,automatically recover after the temperature drops.		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,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	UL8750 (US)		
	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℃ / 70%RH		
	EMC Emission	FCC Part 15 Subpart B, ANSI C63.4a-2017		
Others	Net Weight	0.82KG		
	Dimension	279*78*25.1mm (L*W*H)		
	Packing	265*97*28mm 20pcs /CTN 17.72KG/CTN		

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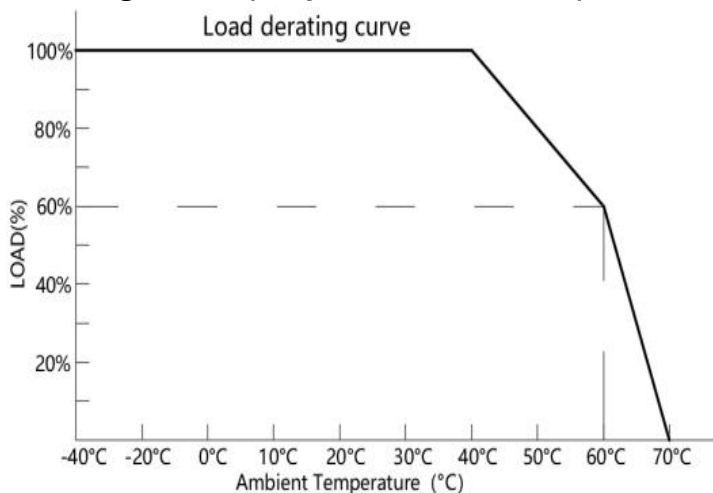
Notes

1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature.
2. Tolerance: includes set up tolerance and load regulation .

Efficiency Curve (efficiency vs output load)



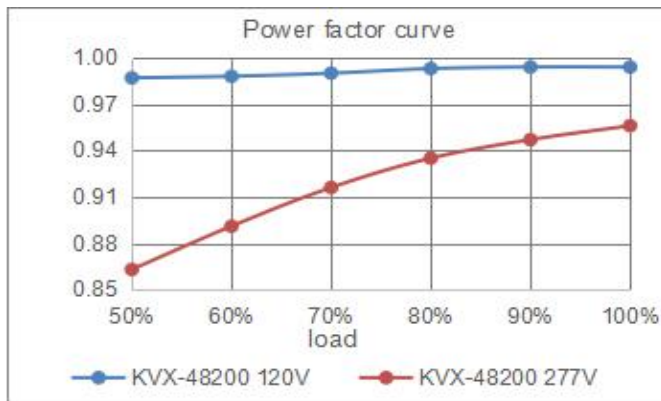
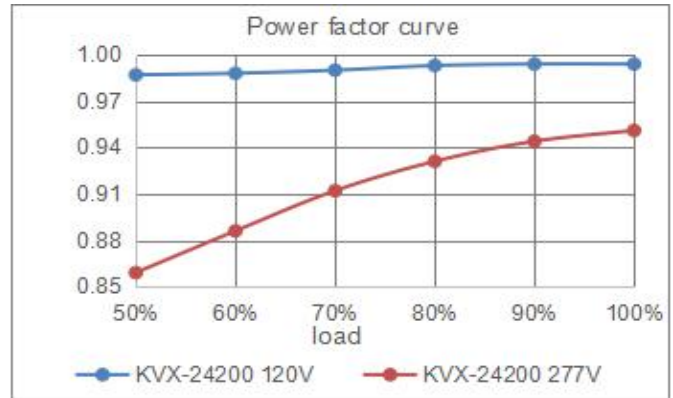
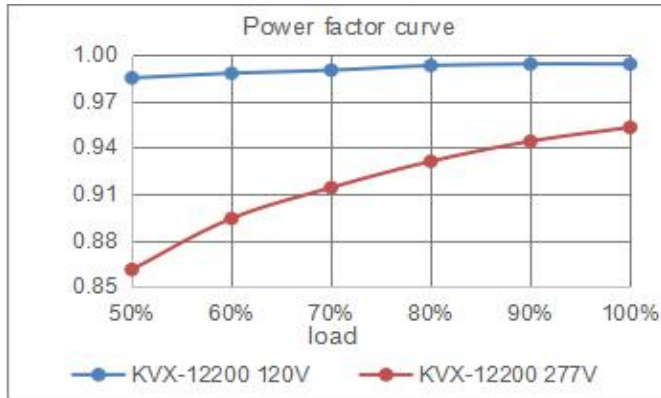
Derating Curve (output load vs TEMP.)



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.

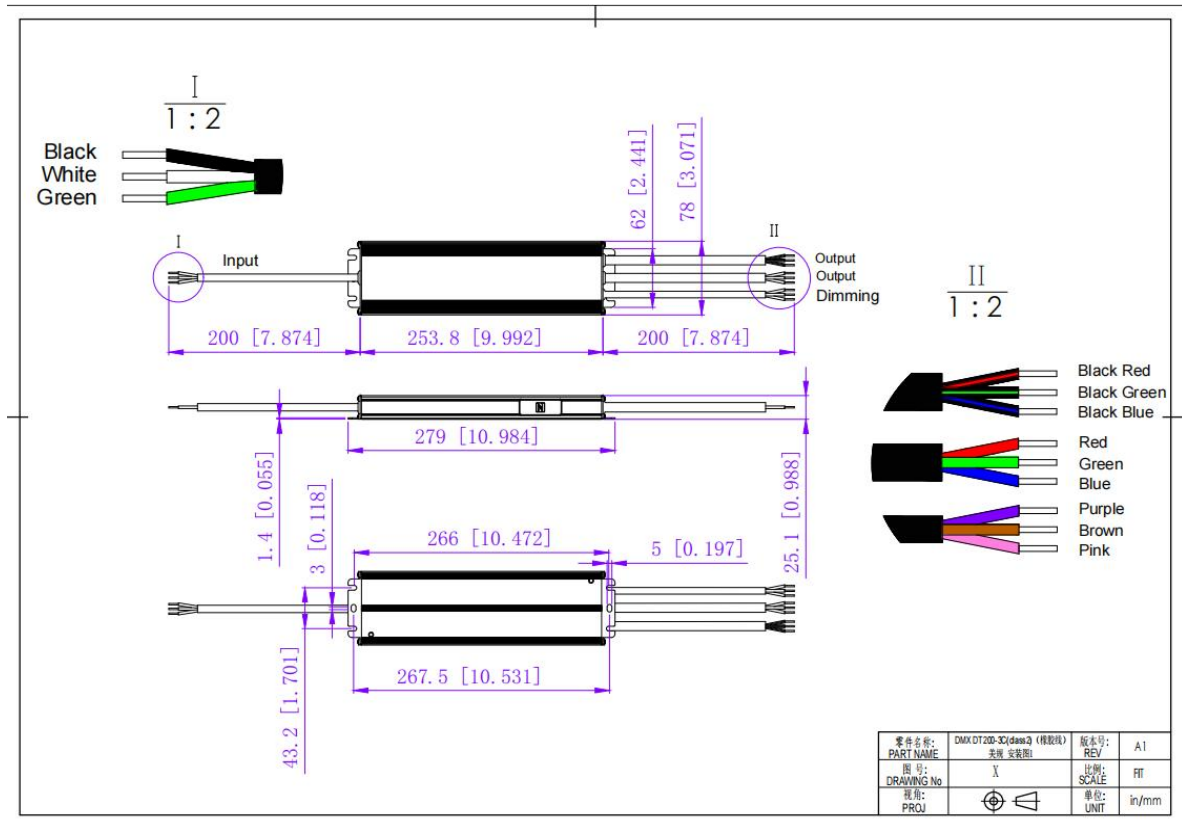
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Power Factor Curve



AC input DMX512 dimmable LED C.V. driver KVV-A series 200W

Mechanical Specification (For North American Market)



12V&24V&48V Version

1. Input cable SJOW 3*18AWG, the Black cable to (L), the White cable to (N), and the Green cable to (G).
2. Output cable 6*18AWG, Black/Red, Black/Green and Black/Blue (V+) cable (+) to LED Positive side(+), Red(R-), Green/Gray(G-) and Blue(B-) cable (-) to LED Positive side(-);
3. Dimming cable SJOW 3*18AWG, Purple (D+), Brown (D-) and Pink (GND) connect to DMX dimmer positive, negative and ground.
4. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

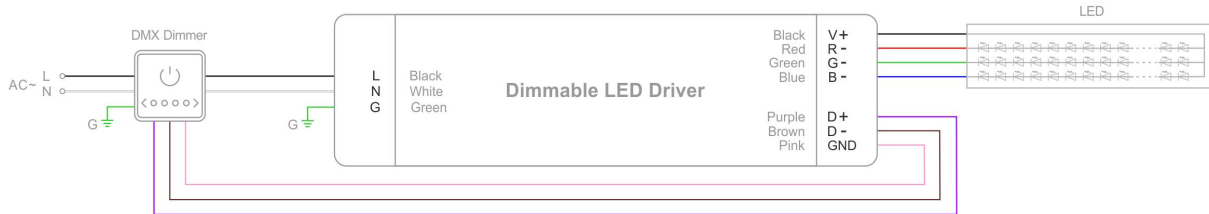
Warm tips:

1. Any other requests for, we can customized.

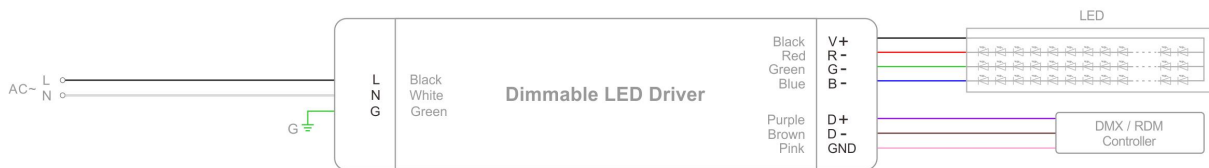
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Dimming Operation and Connecting Diagram

DMX512 - 3 Channel



DMX512 - 3 Channel



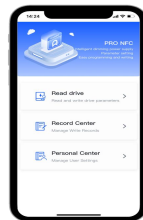
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NFC function

- DMX512 address setting Operation
- The default address for SC DMX driver is 001.
 - Address settings device:



RDM



ProNFC APP



NFC Handheld devices

- Address settings:
 - RDM setting address:**
Set the address by the RDM device. For detailed operation, please refer to RDM device instruction manual.
 - NFC setting address:**
The DMX address can be read and written by a mobile with Pro NFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the DMX512 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	12.2V	12.3V	12.5V	12.6V	12.8V	13V	13.1V	13.3V	13.5V
24V	24V	24.2V	24.4V	24.7V	24.9V	25.1V	25.3V	25.6V	25.8V	26.0V
36V	36V	36.2V	36.4V	36.7V	36.9V	37.1V	37.3V	37.6V	37.8V	38.0V
48V	48V	48.2V	48.4V	48.7V	48.9V	49.1V	49.3V	49.6V	49.8V	50.0V

Instruction

- This driver should be installed by qualified and professional person.
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before test in order to avoid light and power supply damage.
- If driver Cannot work normally, don't maintain privately.

Have any questions, please contact Zhuhai Shengchang.