

## KV-DMX series 1000W

Whole Family: KV-XX1K0-DMX-1C-A (xx=24V 48V) DC - [ 1000W ]



### Features

Output:	Constant Voltage
Range:	120-277VAC
PFC design:	Two-stage PFC function
Efficiency:	Up to 95.5%
Protections:	Short circuit/ over load /over power/ Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full aluminum protection housing,for dry,damp & wet locations(US) IP66 can be used indoor and outdoor(EU)
Dimming function:	DMX dimming
Dimming range:	0.1%-100%
Design features:	This is a high efficiency, high power factor LED drive power supply
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty
NFC function:	The output voltage can be slightly adjusted by the NFC function
Others:	High power factor $PF \geq 0.95$ , flicker-free

## DMX dimmable driver-Constant Voltage Output-KV DMX Series 1000W

## Specification

Model		KV-241K0-DMX-1C-A		KV-481K0-DMX-1C-A	
Certificate		/			
Output	DC Voltage	24V		48V	
	Voltage Tolerance	±2%		±2%	
	Voltage Regulation	≤0.5%		≤0.5%	
	Rated current	41.67A		20.83A	
	Rated power	80%Load@120VAC		100%Load@230/277VAC	
	Load Regulation	±1%		±1%	
Input	Voltage Range	120-277VAC			
	Frequency Range	47 - 63Hz			
	Power Factor (Typ.) @ full load	≥0.99@120VAC		≥0.97@230/277VAC	
	THD(Typ. ) @ full load	≤5%@120VAC		≤10%@230/277VAC	
	Efficiency(Typ.) @ full load	≥93%@120VAC		≥95.5%@230VAC	
	AC Current (Max.)	<8.2A@120VAC		<5.2A@230VAC	
	Inrush Current (Typ.)	39.1A,296us@50%Ipeak 120VAC		60.6A,1.05ms@50%Ipeak 230VAC	
	Leakage current	87.9A,1.63ms@50%Ipeak 277VAC		<0.5mA	
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault condition is removed			
	Over Load	≥110% Hiccup mode, recovers automatically after fault condition is removed			
Environment	Working TEMP.	-40~+50°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%/°C(0 - 50°C)			
	Vibration	10 ~ 500Hz, 5G 12 minutes/cycle, X Y Z axis 72 minutes each			
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13(US) BS/EN/IEC 61347-1, BS/EN/IEC 61347-2-13 , BS/EN/IEC 62384(EU)			
	Withstand voltage	I/P-O/P:1.88KVAC		I/P-FG:1.88KVAC	
		I/P-O/P:3.75KVAC		I/P-FG:1.5KVAC	
		I/P-O/P: 100MΩ/ 500VDC/ 25°C/ 70% RH		O/P-FG:0.5KVAC (US) O/P-FG:0.5KVAC (EU)	
Others	Net Weight	3.59KG			
	Dimension	332.6*114*53.3mm (L*W*H)			
	Packing	/			
Notes	1. Unless otherwise specified, all specifications are measured at 120V input, rated load, and 25°C ambient temperature. 2. Default states: Output voltage is DC Rate Voltage. 3. LED driver Meets the harmonic emissions requirements of ANSI C82.77-10.				

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**MCB recommendation**

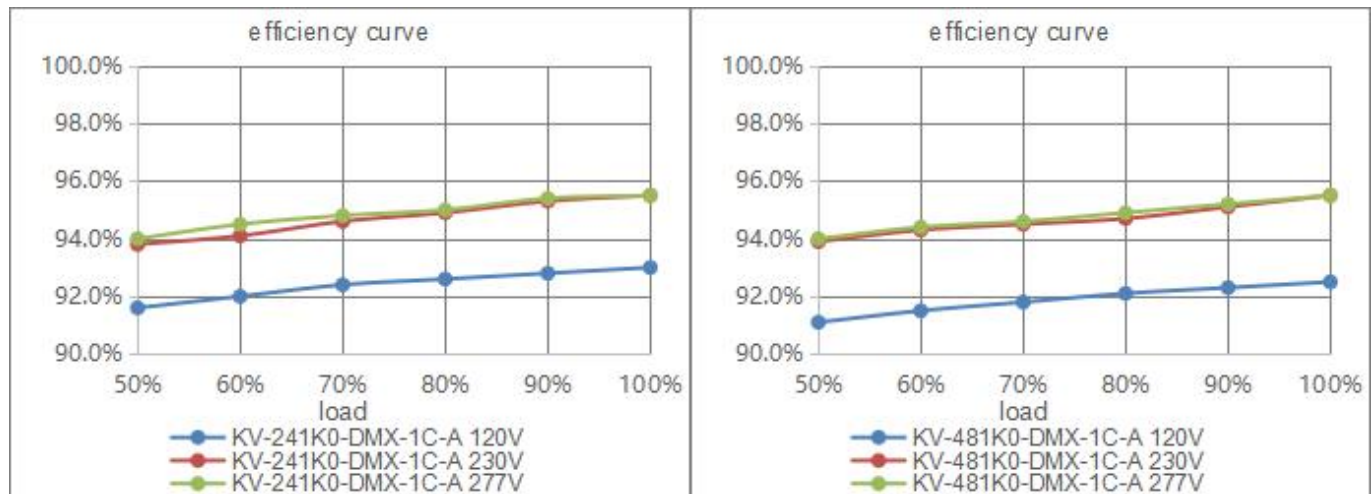
When the input voltage is 120Vac,the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	0
	13A	0
	16A	1
	20A	1
	25A	1
When the input voltage is 230Vac,the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	1
	13A	1
	16A	1
	20A	2
	25A	2
When the input voltage is 277Vac,the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	10A	1
	13A	1
	16A	2
	20A	2
	25A	3

**Note:**

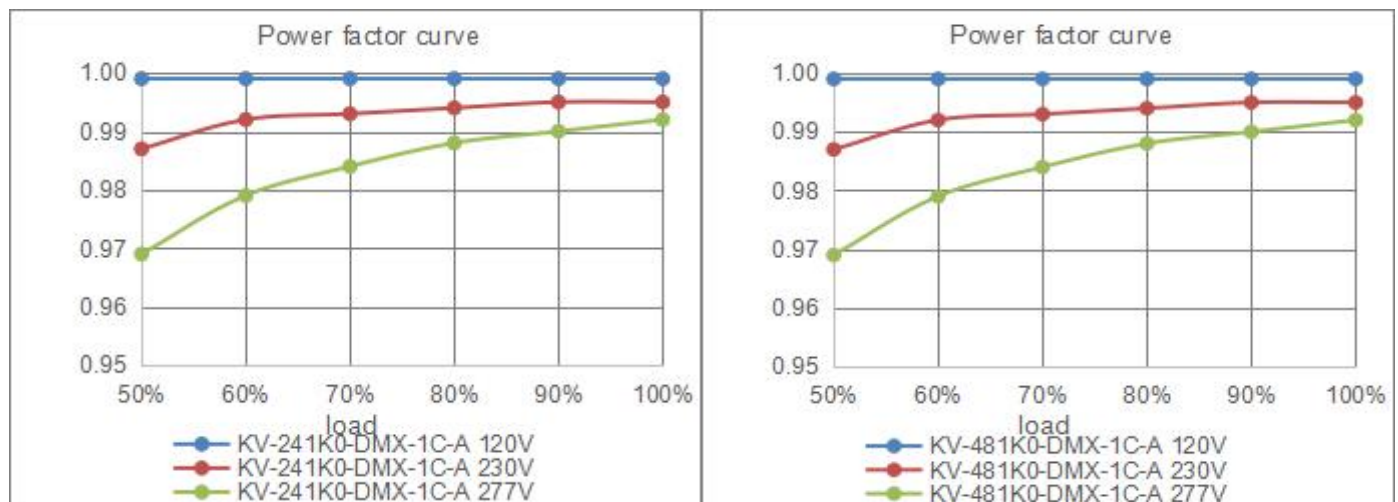
- 1.The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is 50 ° C
- 2.The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.

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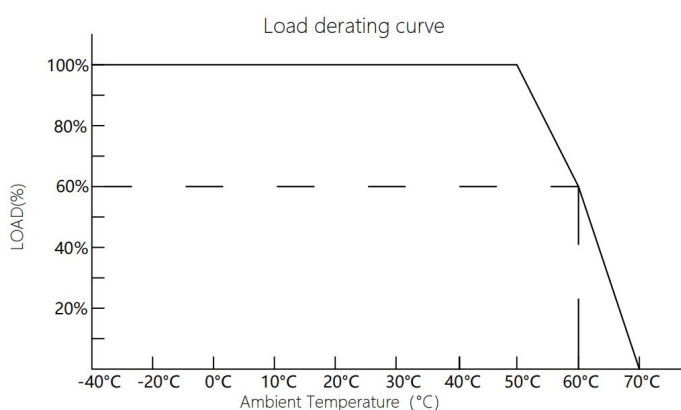
**Efficiency Curve (efficiency vs output load)**



**Power factor curve(Power factor vs output load)**



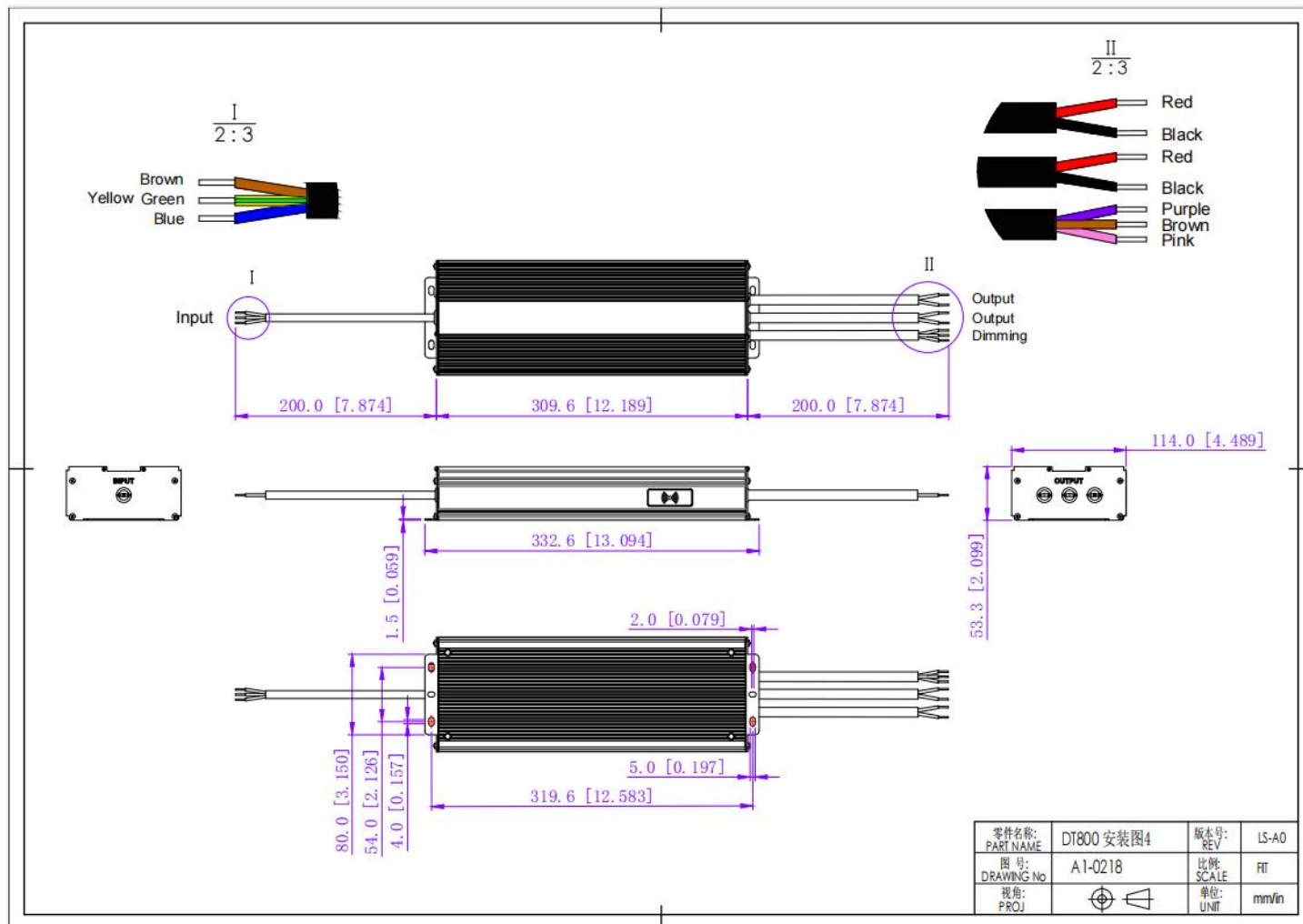
**Derating Curve (output load vs TEMP.)**



1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
  2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature.
- Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.

DMX dimmable driver-Constant Voltage Output-KV DMX Series 1000W

**Mechanical Specification**



**24V&48V Version**

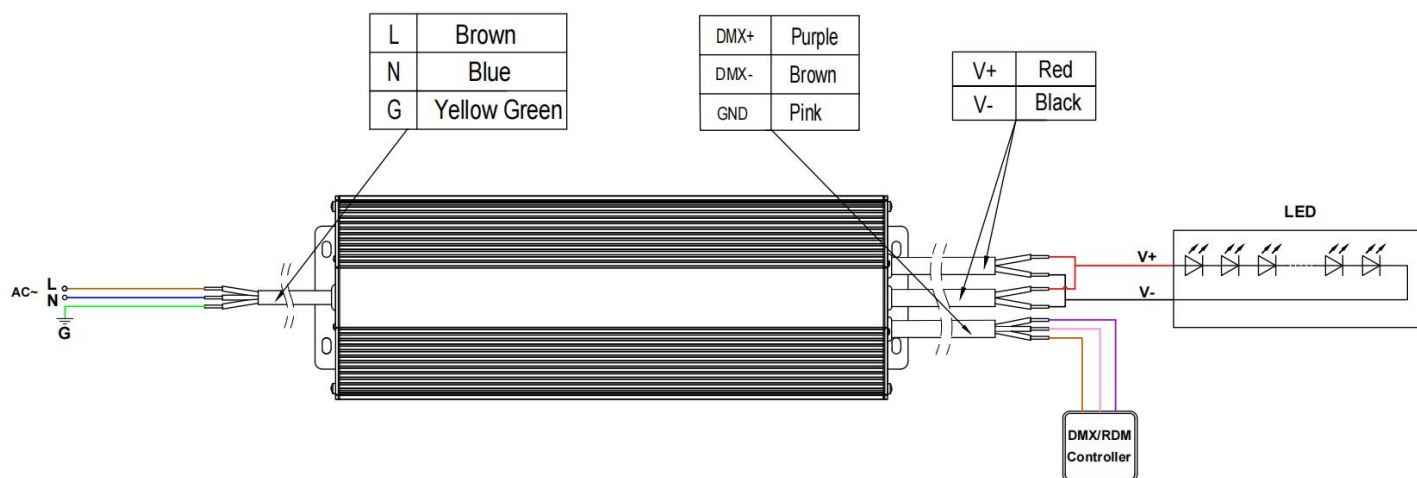
Universal wire gauge	
DT800	
Input wire(2V&48V)	Brown (L) Blue(N) Yellow-green(G)(3*17AWG/1.026mm <sup>2</sup> )
Output wire(24V)	Red(V+) Black(V-): 2*(2*12AWG/3.31mm <sup>2</sup> )
Output wire(48V)	Red(V+) Black(V-): 2*(2*14AWG/2*2.075mm <sup>2</sup> )
Dimming wire(2V&48V)	Purple(D+) Pink(G) Brown(D-)(3*18AWG//0.823mm <sup>2</sup> )
Remarks:	

**Warm tips:**

Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

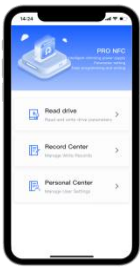
DMX dimmable driver-Constant Voltage Output-KV DMX Series 1000W

Connecting Diagram



DMX dimmable driver-Constant Voltage Output-KV DMX Series 1000W

NFC function



ProNFC APP



NFC Handheld devices



IOS Download



Android Download

Adjust output voltage slightly by NFC:

The output voltage 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 Dimmable LED 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
24V	24.0V	24.2V	24.3V	24.5V	24.7V	25.8V	25.0V	25.2V	25.3V	25.5V
48V	48.0V	48.2V	48.4V	48.7V	48.9V	49.1V	49.3V	49.6V	49.8V	50V

Set Address easily by NFC

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

Instructions

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](http://www.scpower.net.cn/en)