DALI-2 & PUSH Dimmable LED Driver - Constant Voltage Output - KV-2C-DP2A Series 360W

KV-2C-DP2A Series 360W (DT8)

Whole Family: KV-XX360-2C-DP2A (XX=24/48VDC) [60W 80W 96W 100W 120W 150W 200W 300W 320W 360W]



Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 92%
Protections:	Short circuit / Over load / Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66 can be used indoor and outdoor.
Design features:	CCT brightness and color temperature adjustment.
Dimming function:	DALI-2 & PUSH 2 in 1 dimming
Dimming range:	0.2-100% dimming depth 0.2%
Min load:	Min load is 10%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty
Others:	PWM output, flicker-free dimming

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Specification

Model		KV-24360-2C-DP2A	KV-48360-2C-DP2A
Certificate		ENEC / CE / SAA / SELV / ROHS / REACH	
Output	DC Voltage	24V	48V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	0.5%	
	Rated current	15A	7.5A
	Rated power	360W	
	Load Regulation	1%	
Input	Voltage Range	200-240VAC	
	Frequency Range	50 / 60Hz	
	Power Factor (Typ.) @ full load	0.95	
	THD(Typ.) @ full load	≤10%@230VAC	
	Efficiency(Typ.) @ full load	92%@230VAC	
	AC Current (Max.)	2.1A	
	Inrush Current (Typ.)	124A, 45us @50%Ipeak 230VAC	
	Leakage current	<0.5mA	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.	
	Over Load	105%~120% Hiccup mode, recovers automatically after fault condition is removed.	
	Over temperature	Ambient temperature 55℃±10℃, shut down o/p voltage, recover automatically after temp. drops.	
Environment	Working TEMP.	-40~+40℃ (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 72 min. each along X,Y,Z axes	
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13	
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH	
	EMC Immunity	EN61547; EN61000-4-2,3,4,5,6,11	
	EMC Emission	EN55015 EN61000-3-2,3 (≥50%load)	
Others	Net Weight	1.2Kg	
	Dimension	302*78*25.1mm (L*W*H)	
	Packing	350*300*215mm 20pcs /CTN	
Notes	1. Unless otherwise specified, all specifications are measured at 230V input, rated load, and 25℃ ambient temperature. 2. Default states: Output voltage level is level 1. (see below NFC voltage regulation level table) Output frequency is 4KHZ.		

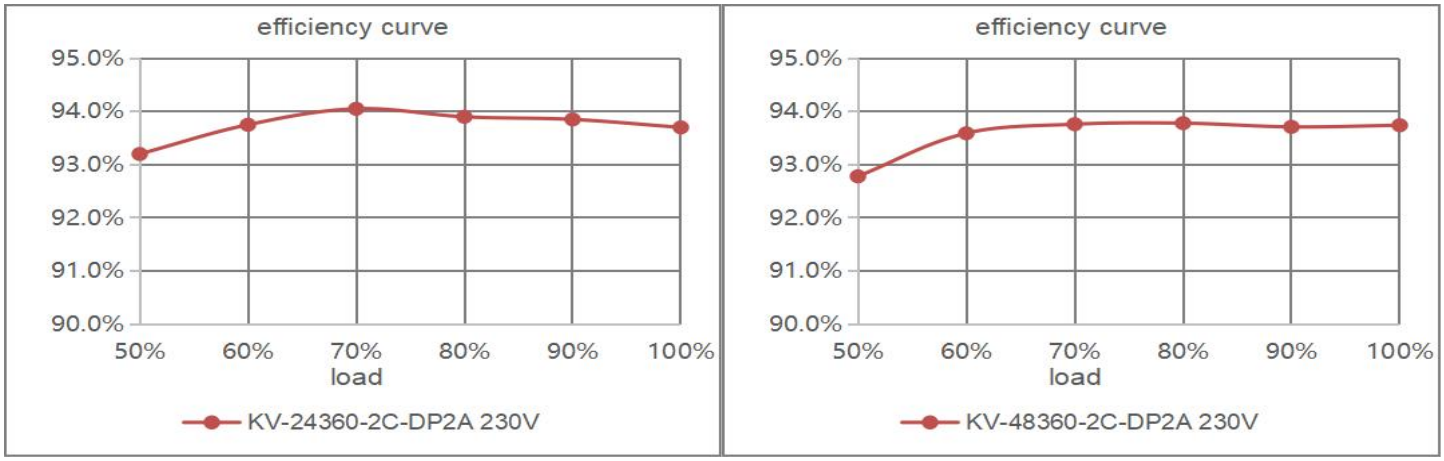
MCB recommendation

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(breaking capacity:6KA)	10A	5
	13A	6
	16A	8
	20A	10
	25A	13

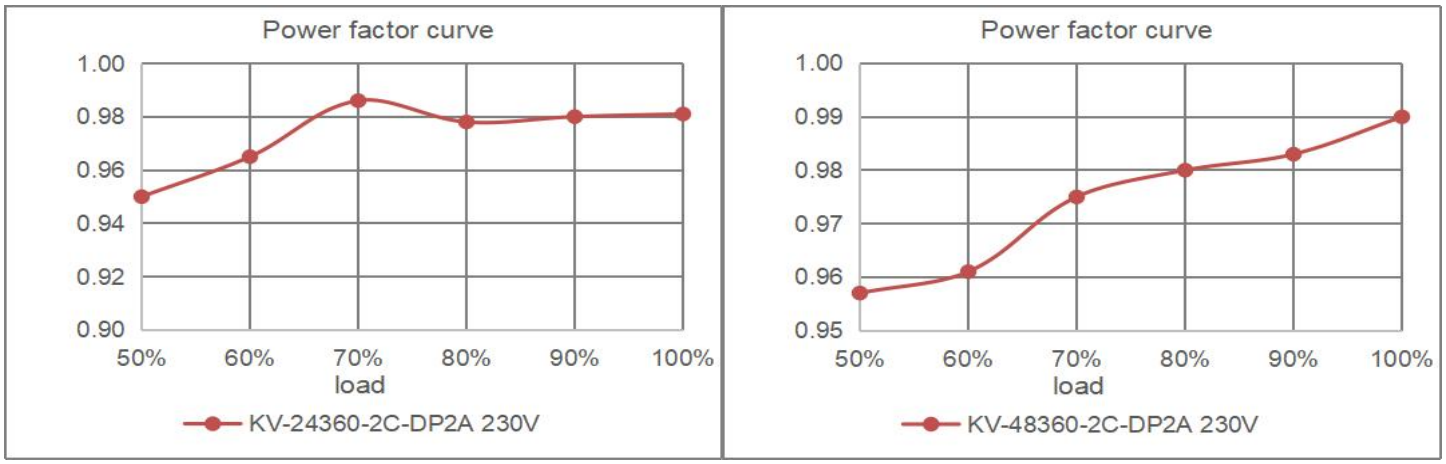
Note：

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.

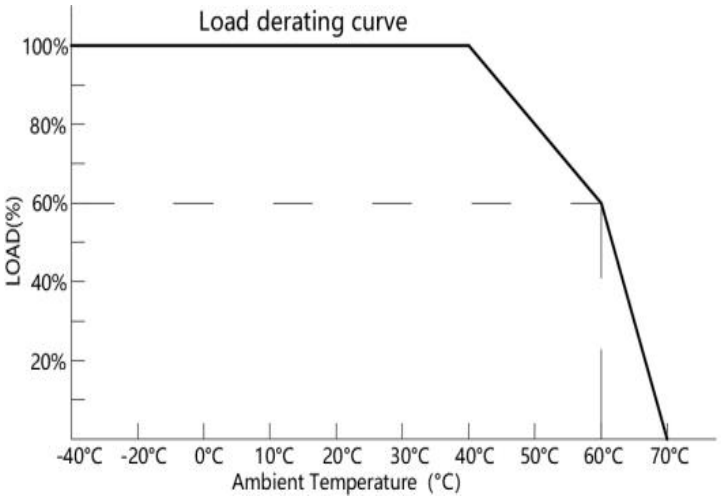
Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)

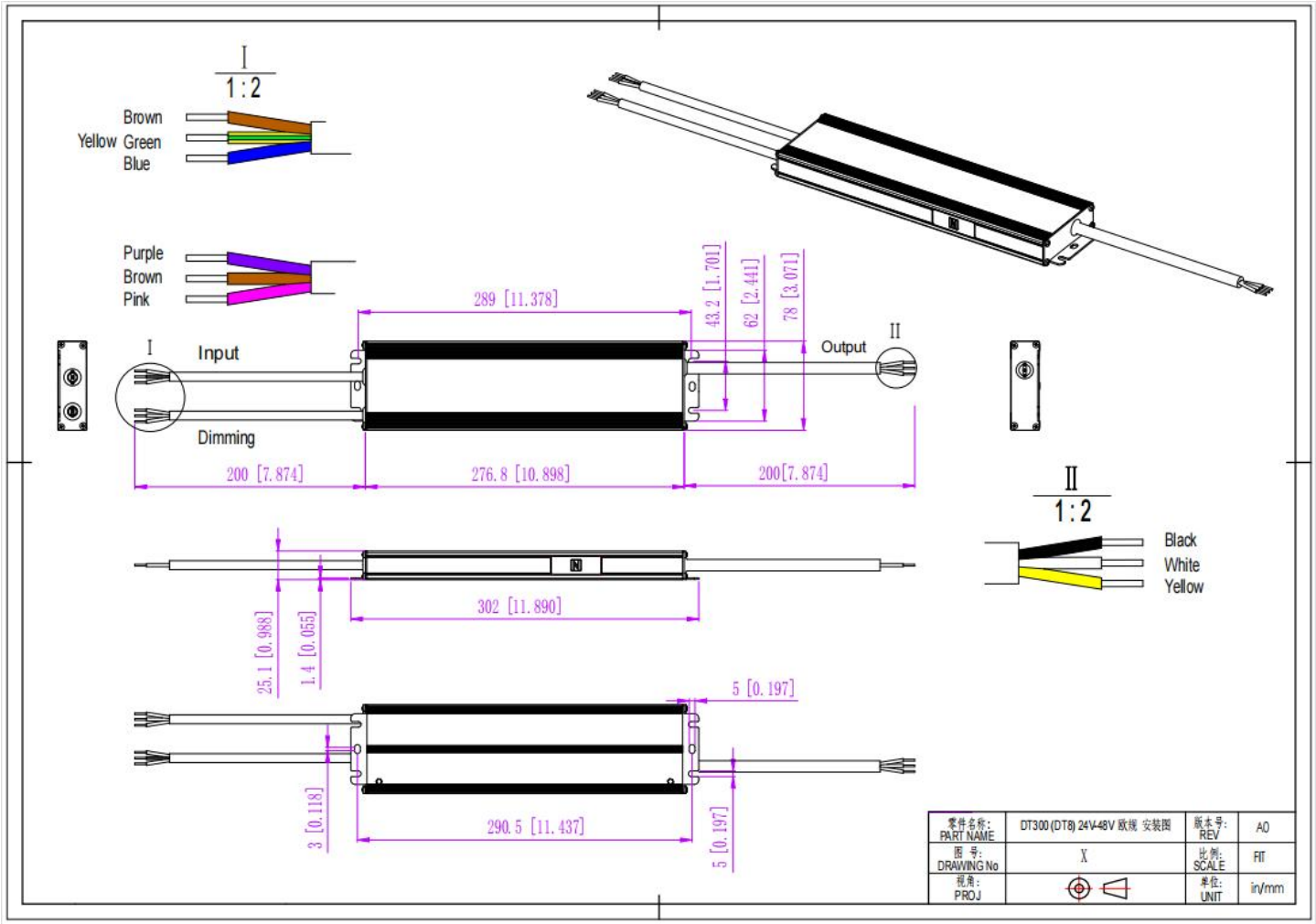


Derating Curve (output load vs TEMP.)



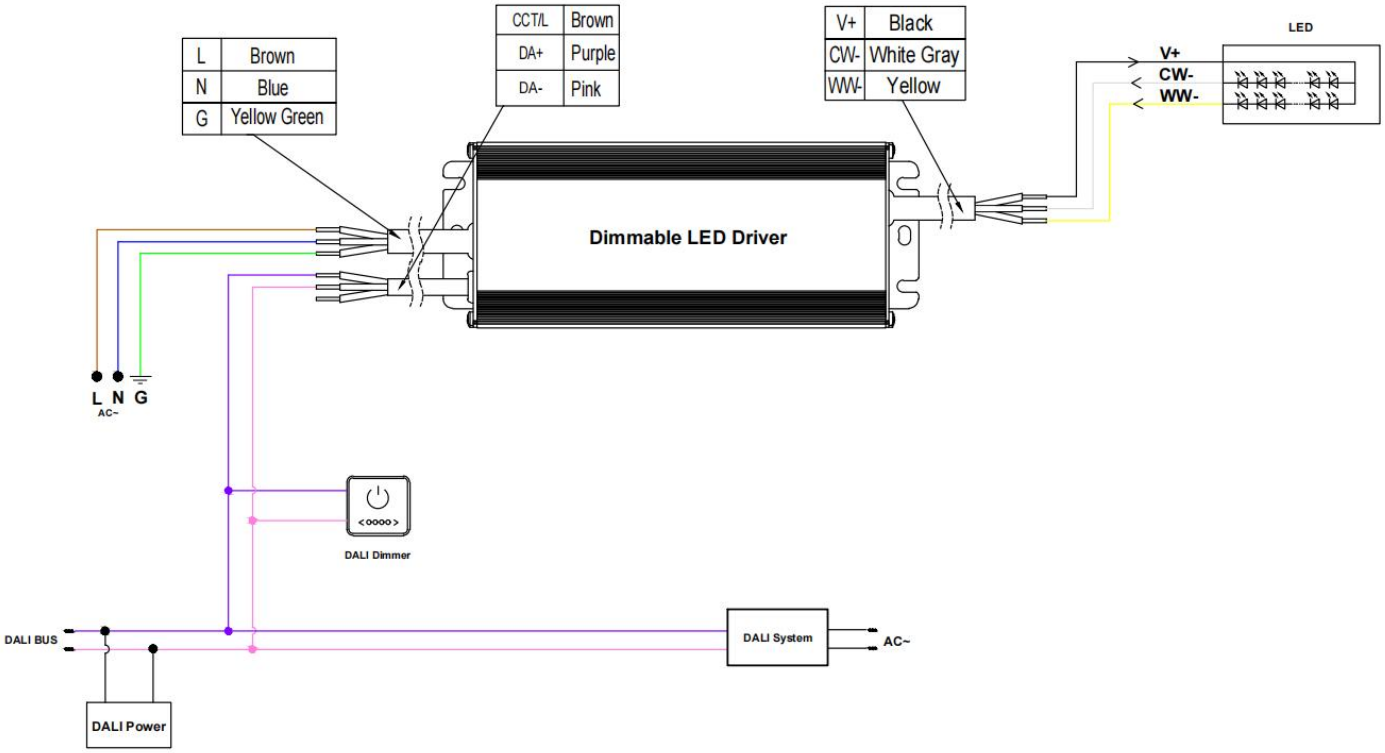
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

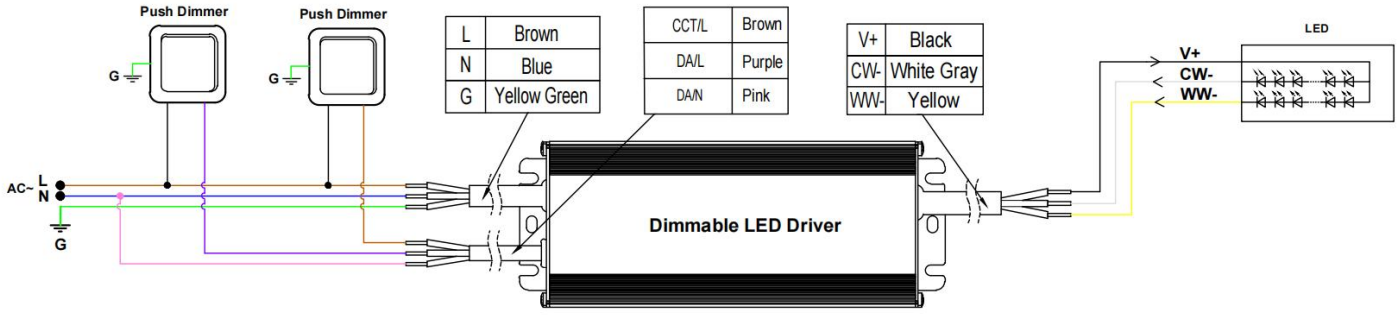
Mechanical Specification



European wire gauge	
DT300	
Input wire	Brown(L) Blue(N) Yellow Green(G) (3*1.0mm²)
Output wire	Black(V+) White Gray(CW-) Yellow(WW-) (3*2.08mm²)
Dimming wire	Purple(DA+) Pink(DA-) Brown(CCT/L) (3*0.824mm²)
Remarks: Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.	

Connecting Diagram





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	24.8V	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	50.0V

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