0/1-10V LED dimmable driver---Constant voltage 45W

■ Feature

- Output constant voltage
- Universal AC input:100-265VAC
- Built-in active PFC function
- High efficiency up to 86%
- Protections:Short circuit/Over current/Over loading
- Cooling by free air convection
- Fully isolated plastic case with terminals IP20
- Class 2 power unit
- Three in one dimming function(0/1-10Vdc or PWM signal or resistance)
- Dimming range: 0-100%
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Three years warranty

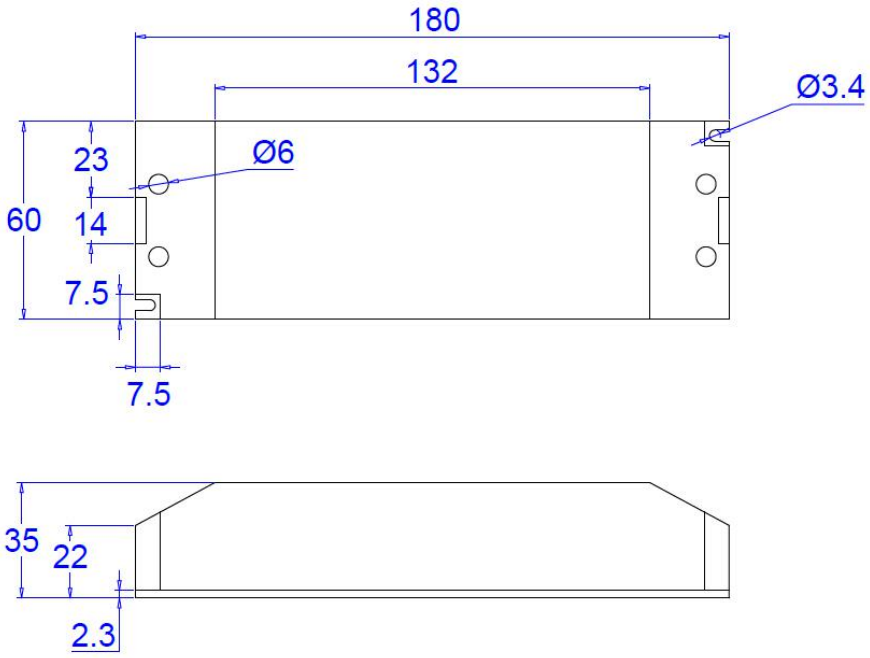
■ Specification

CE IP20 SELV

Model		KV-12045-P-DIM	KV-24045-P-DIM	KV-36045-P-DIM	KV-48045-P-DIM
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	0 - 3.75A	0 -1.87A	0 - 1.25A	0 - 0.94A
	Rated power	45W			
Input	Voltage Range	100～265VAC			
	Frequency Range	47～63HZ			
	Power Factor	PF≥0.95/120VAC PF≥0.90/230VAC PF≥0.90/265VAC（Full loading）			
	Efficiency（Typ.）	81%	85%	86%	86%
	AC Current（Max.）	0.51A	0.49A	0.48A	0.48A
	Leakage current	＜0.5mA			
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
	Over Loading	≤120%			
	Over Current	≤1.2*Iout			
Environment	Working TEMP.	-40～+60℃			
	Working Humidity	20～90%RH non-condensing			
	Storage TEMP.,Humidity	-40～+80℃，10～95%RH			
	TEMP.coefficient	±0.03%/℃（0～50℃）			
	Vibration	10～500Hz, 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes			
Safety&EMC	Safety standards	EN61347-1 EN61347-2-13			
	Withstand voltage	I/P-O/P:3.75KVAC			
	Isolation resistance	I/P-O/P I/P-FG O/P-FG：100M Ohms/500VDC/25℃/70%RH			
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 (≥60%load)			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry Level Criteria A			
Others	Net.Weight	0.55Kg			

	Size	180*60*35mm（L*W*H）
	Packing	355*215*215mm 20PCS
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃ of ambient temperature. 2. Tolerance:includes set up tolerance,line regulation and load regulation . 3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation,the final equipment manufactures must be-qualify EMC Directive on the complete installation again.	

■ 45W 0-10V dimmable driver Mechanical Specification



■ Label

※Input with Live Wire(L) Neutral Wire (N)
※Signal Dimming (0/1-10V) (DIM+), (DIM-)
※Output LED SEC （LED+），（LED-）
Note: Any other requests we can customized.

■ Dimming Operation

※Built-in 3 in 1 dimming function, IP20 rated .Output luminous can be adjusted through output cable by connecting a resistance or 0/1-10Vdc or 10V PWM signal between DIM+ and DIM-.

※Please DO NOT connect “DIM-“ to “LED-“

※Reference resistance value: (Typical)

Resistance value	Signle driver	0Ω	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
	Multiple drivers	0Ω/N	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	——
Percentage of luminous		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

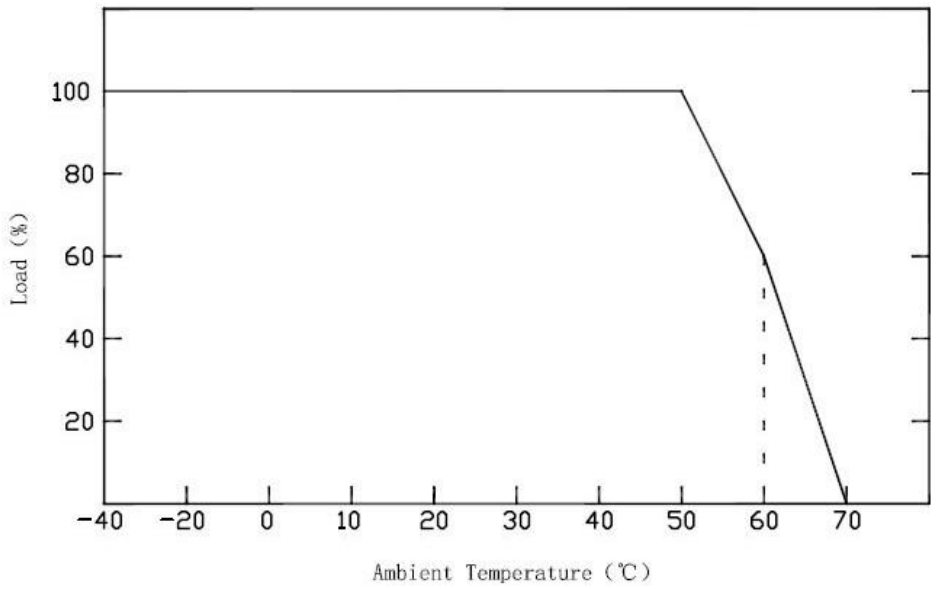
※1-10/0-10V dimmable function :(Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of luminous	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

※10V PWM signal: (Typical): Frequency range:100Hz-3KHZ

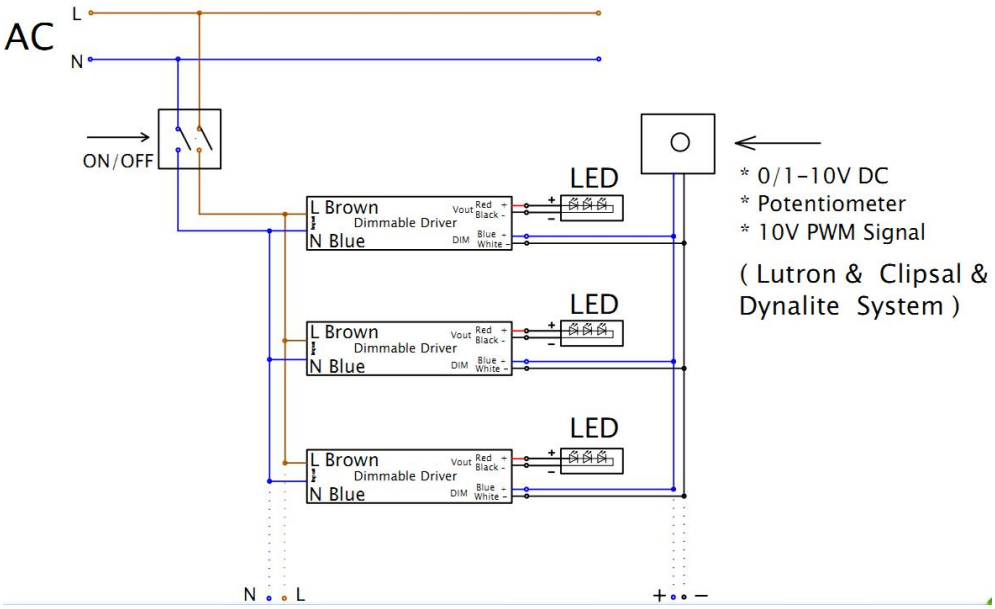
Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of luminous	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

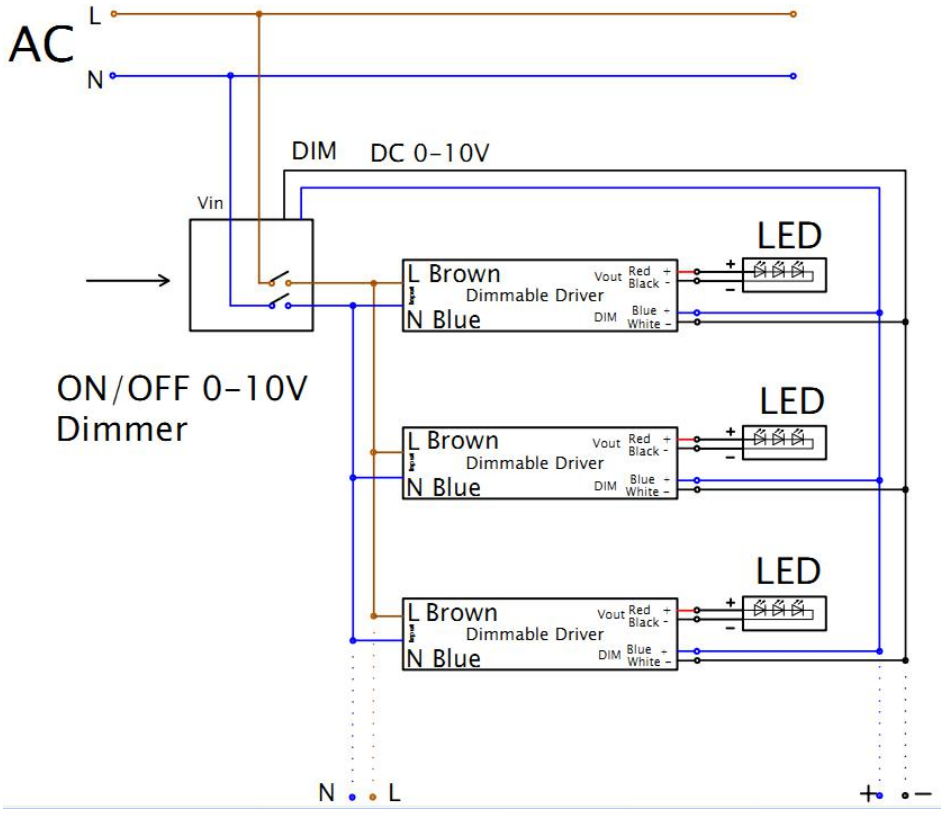
■ Derating Curve



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

■ Connect Drawing





■Instruction

1) This driver should be installed by qualified and professional person;
2) Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
3) Ensure that wiring is correct before test in order to avoid light damage;
4) If driver cannot work normally, don't maintain privately; Have any questions, please contact Shengchang