

0/1-10V LED dimmable driver—Constant voltage 20W

■ Feature

- Output constant voltage
- Universal AC input: 100-265VAC
- Built-in active PFC function
- High efficiency up to 83%
- 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



■ Specification

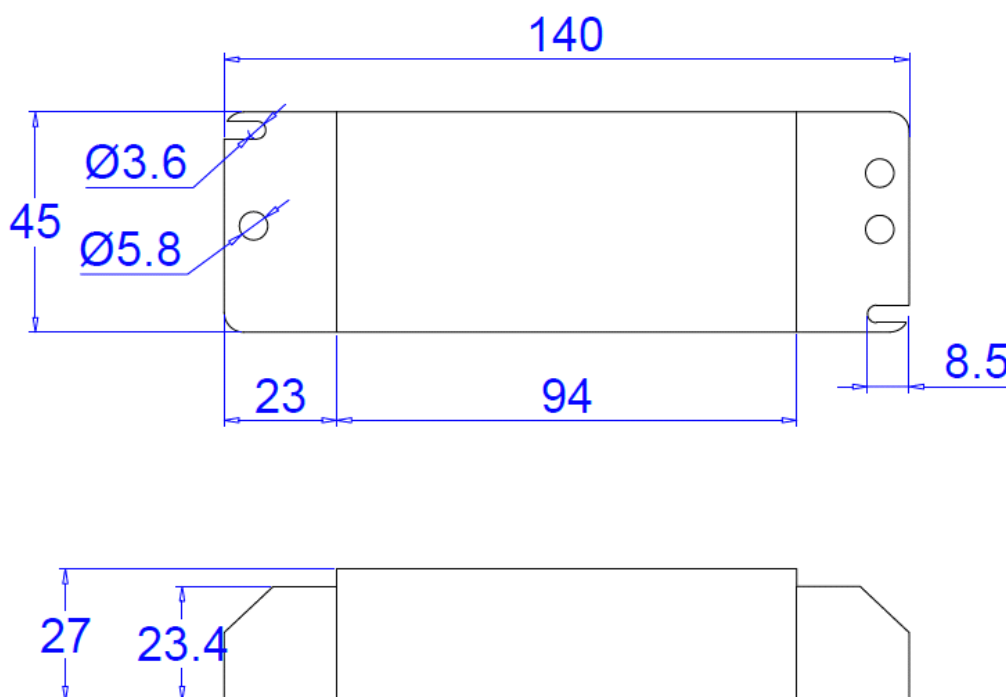
CE    IP20 SELV

Model		KV-12020-P-DIM	KV-24020-P-DIM	KV-36020-P-DIM	KV-48020-P-DIM
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±0.5V			
	Rated current	0 - 1.67A	0 - 0.83A	0 - 0.56A	0 - 0.42A
	Rated power	20W			
Input	Voltage Range	100~265VAC			
	Frequency Range	47~63HZ			
	Power Factor	PF≥0.95/120VAC PF≥0.95/230VAC PF≥0.92/265VAC (Full loading)			
	Efficiency (Typ.)	80%	82%	83%	83%
	AC Current (Max.)	0.31A	0.31A	0.31A	0.31A
	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: 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	0.2Kg			

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	Size	140*45*27mm (L*W*H)
	Packing	320*280*215mm/50pcs /CTN
Notes	<ol style="list-style-type: none"> 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. 	

■ 20W 0-10V dimmable driver Mechanical Specification



■ Label

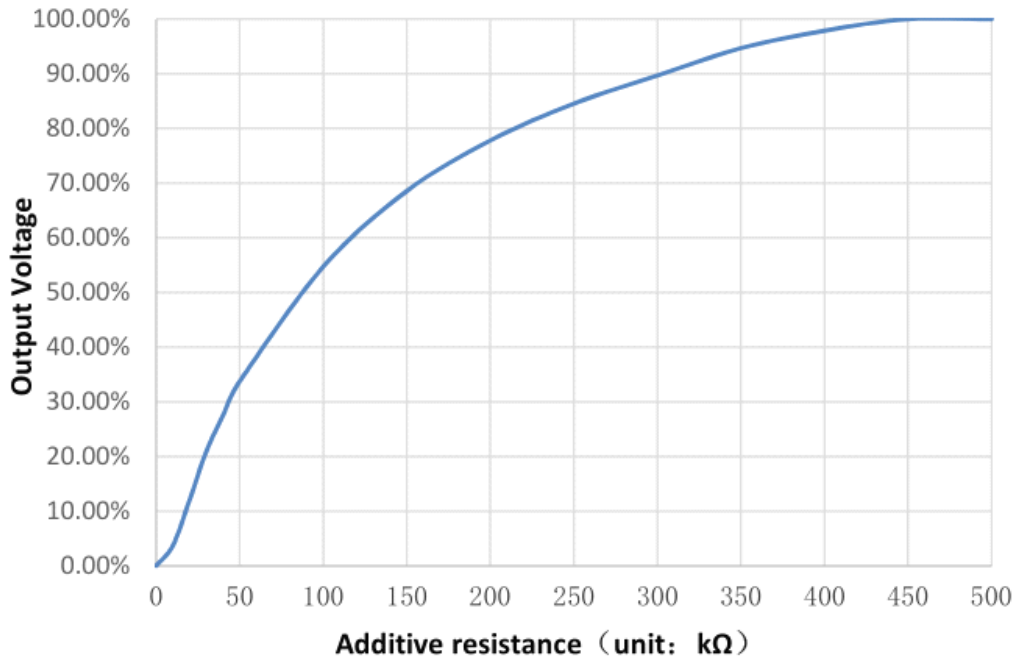


- ※Input with Live Wire(L) Neutral Wire (N)
- ※Signal Dimming (0/1-10V) (DIM+), (DIM-)
- ※Output LED SEC (LED+) , (LED-)

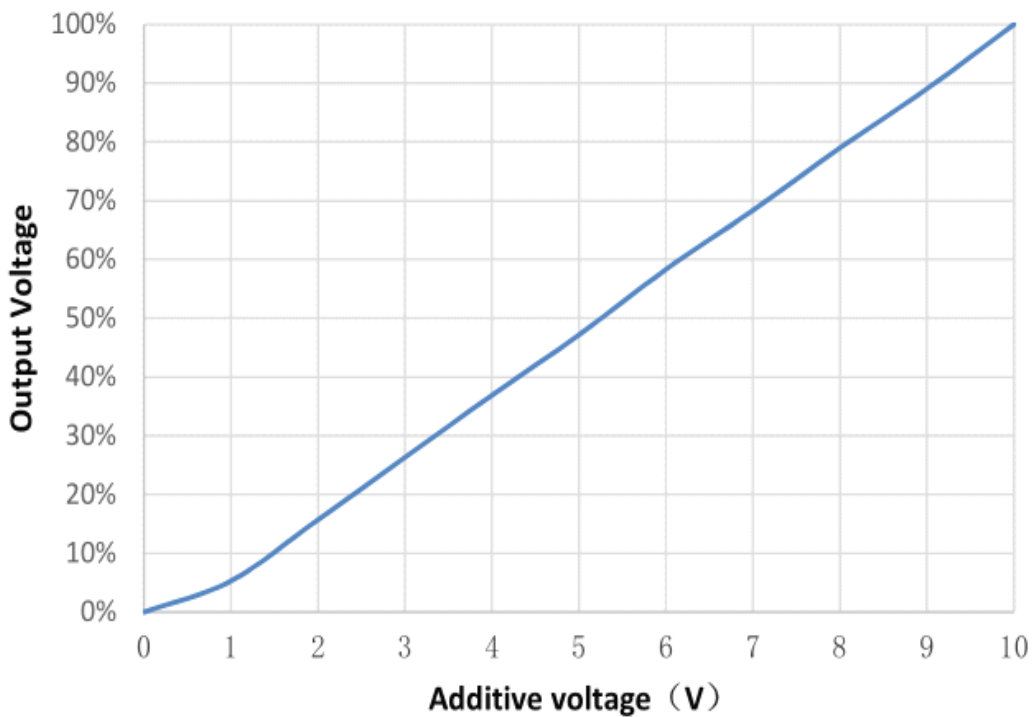
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■ Dimming Curve

Resistance Dimming Curve

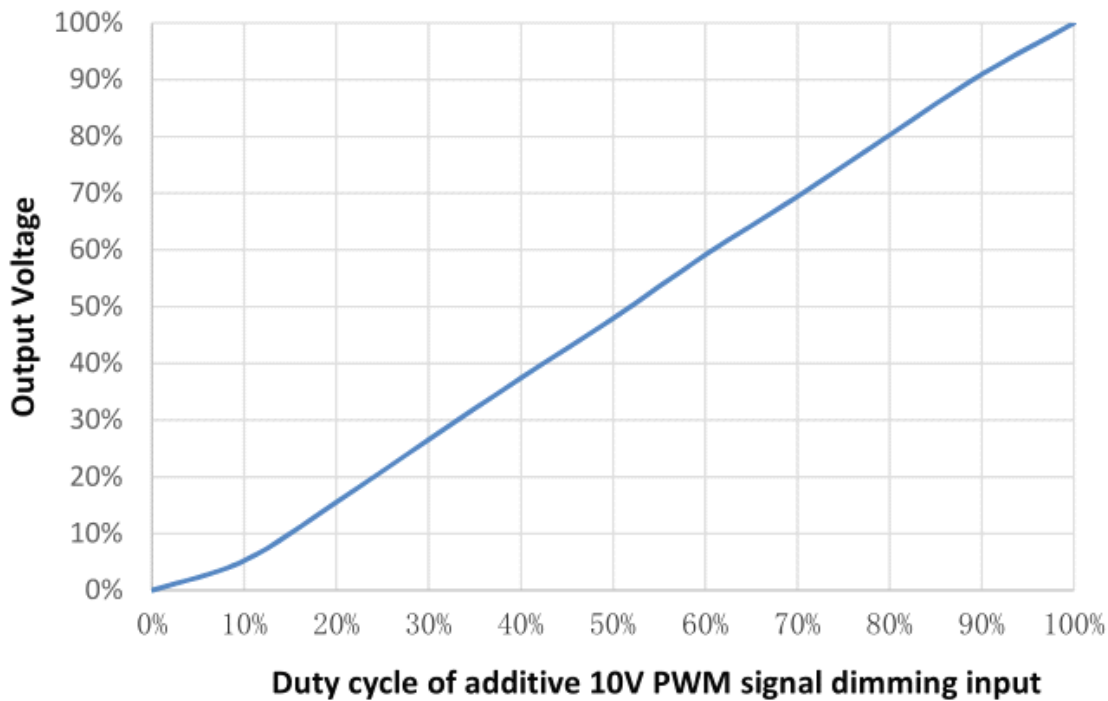


Voltage curve of signal line

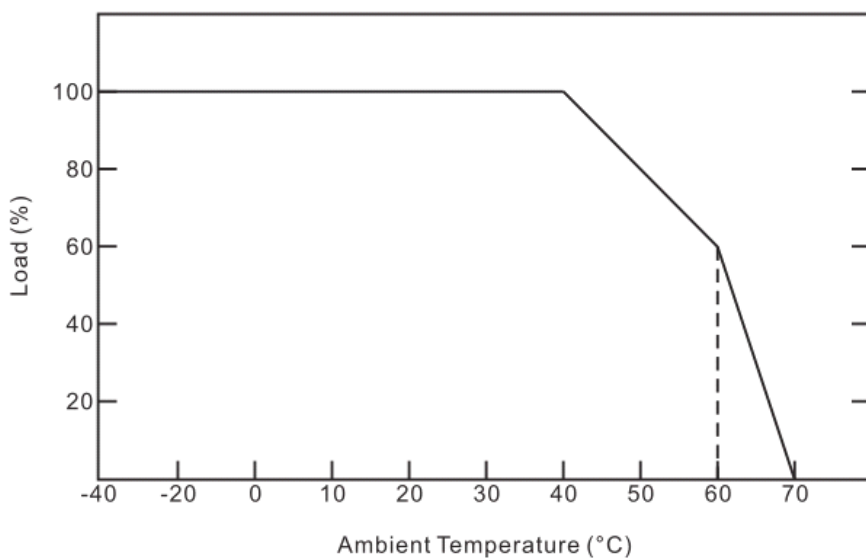


10V PWM duty ratio signal curve

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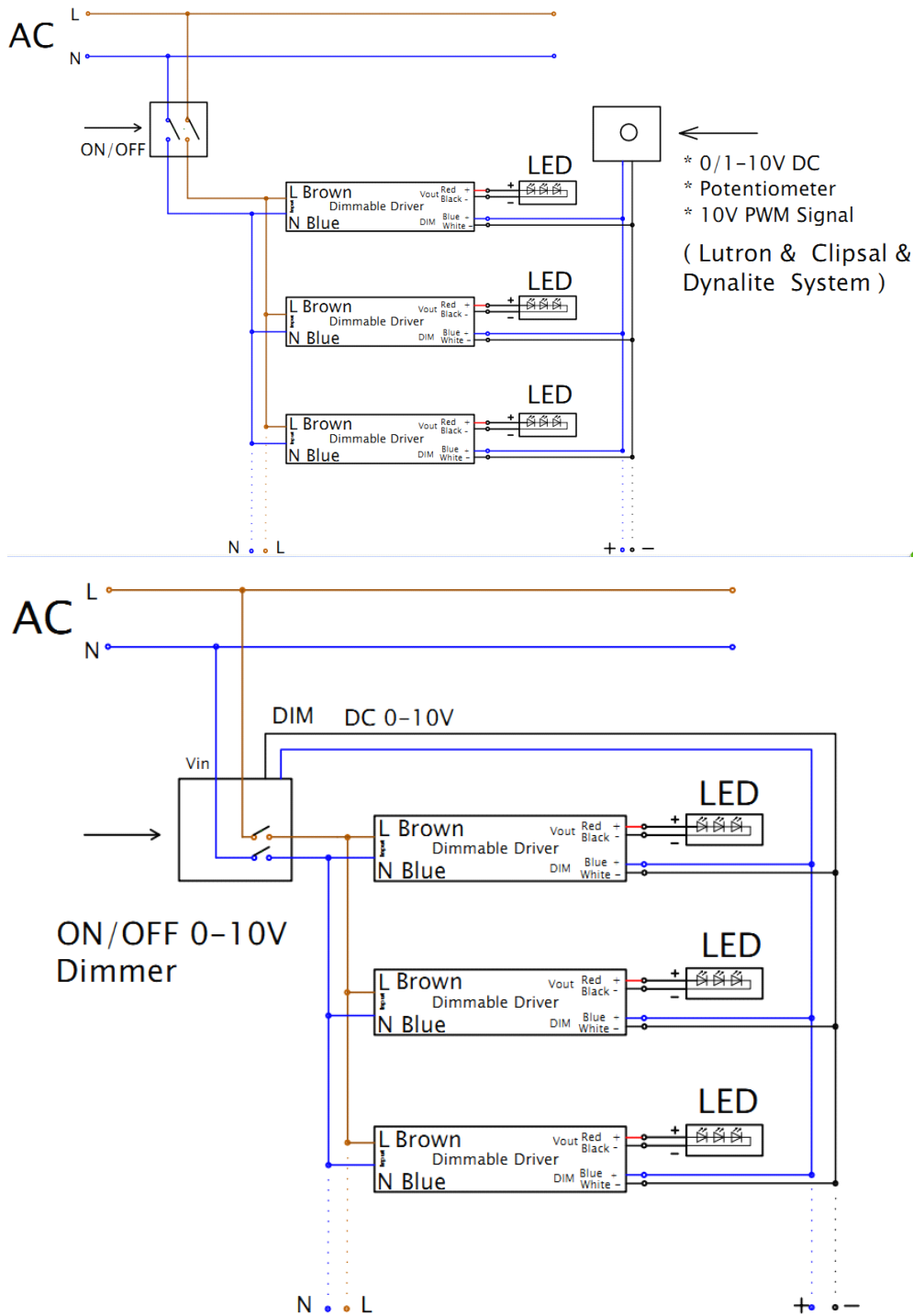
■ Derating Curve



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

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■ 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;