0/1-10V LED Dimmable Driver - Constant Voltage 20W

The actual product may look different

■ 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
- Three years warranty

■ Specification

IP20 SELV

Model		SC-20-12PWM	SC-20-24PWM
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated current	0 - 1.67A	0 -0.83A
	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%
	AC Current（Max.）	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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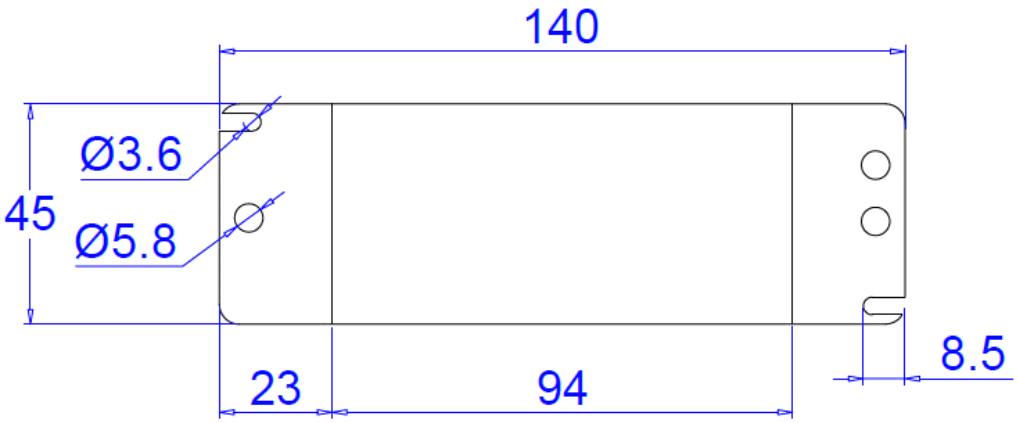
	Size	140*45*27mm（L*W*H）
	Packing	320*280*215mm/50pcs /CTN
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃ of ambient temperature. 2. Tolerance:includes set up tolerance,line regulation and load regulation . 3. The power supply is considered as a component 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-）
Note: Any other requests we can customized.

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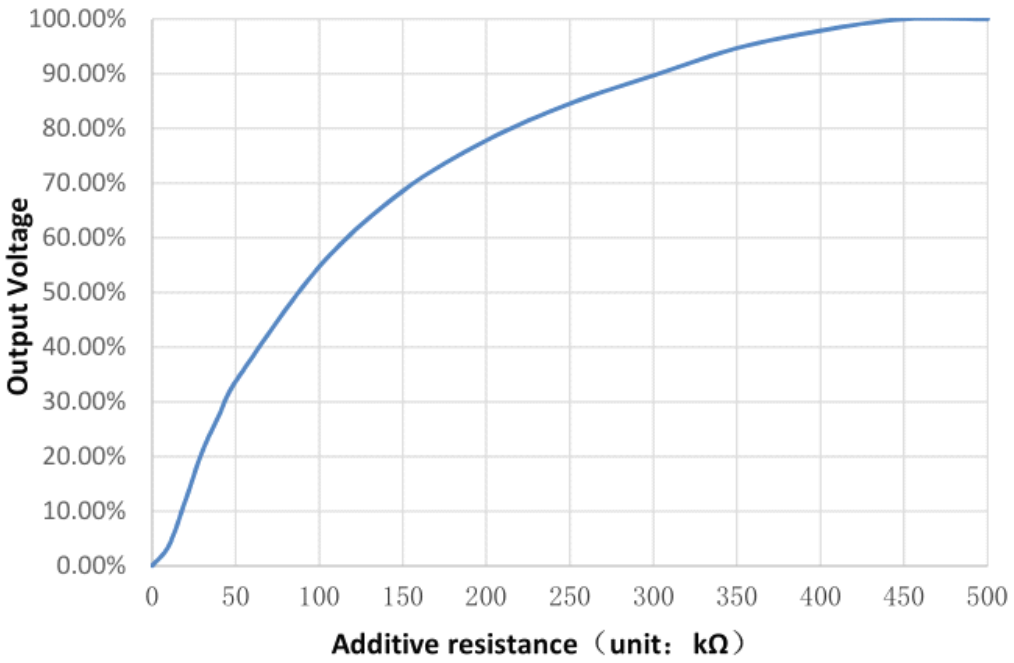
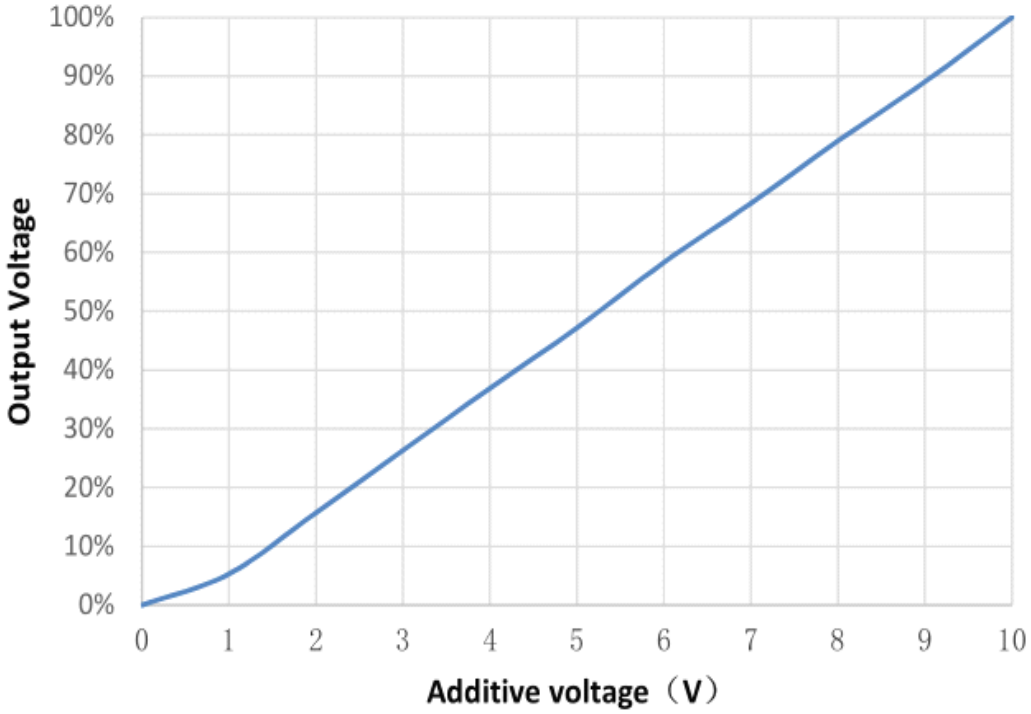
■ Dimming Curve

Resistance Dimming Curve



Voltage curve of signal line



10V PWM duty ratio signal curve

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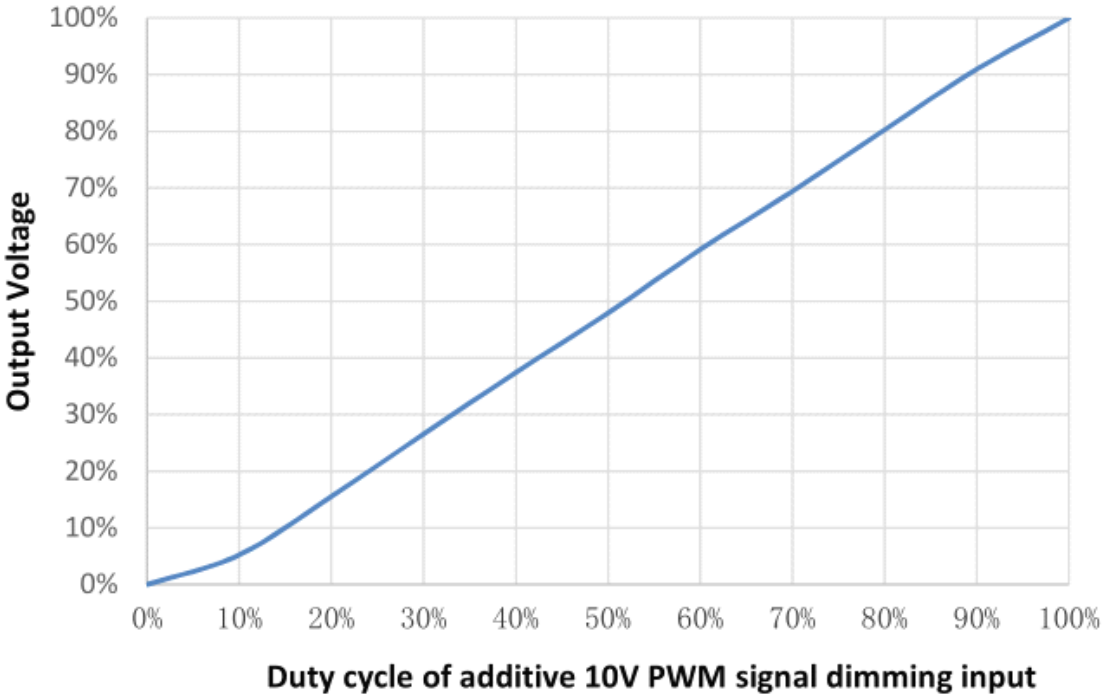
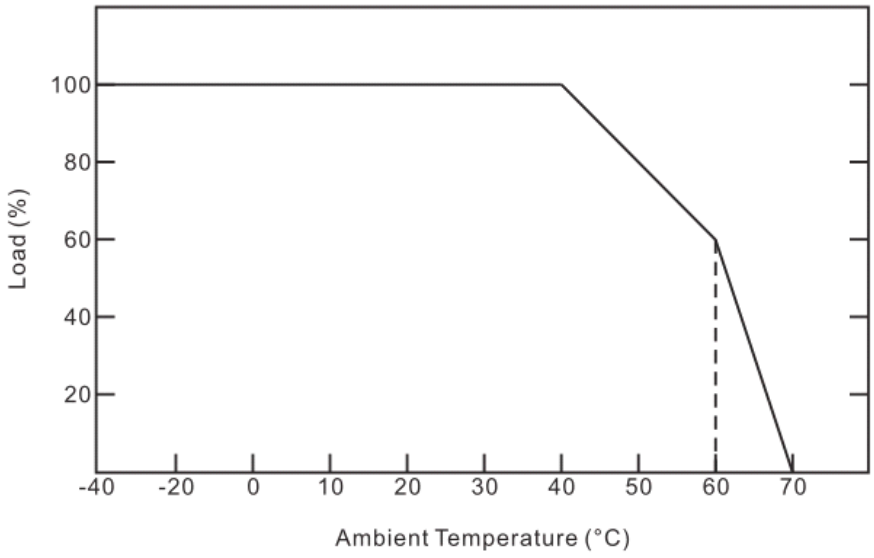


■ Derating Curve



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

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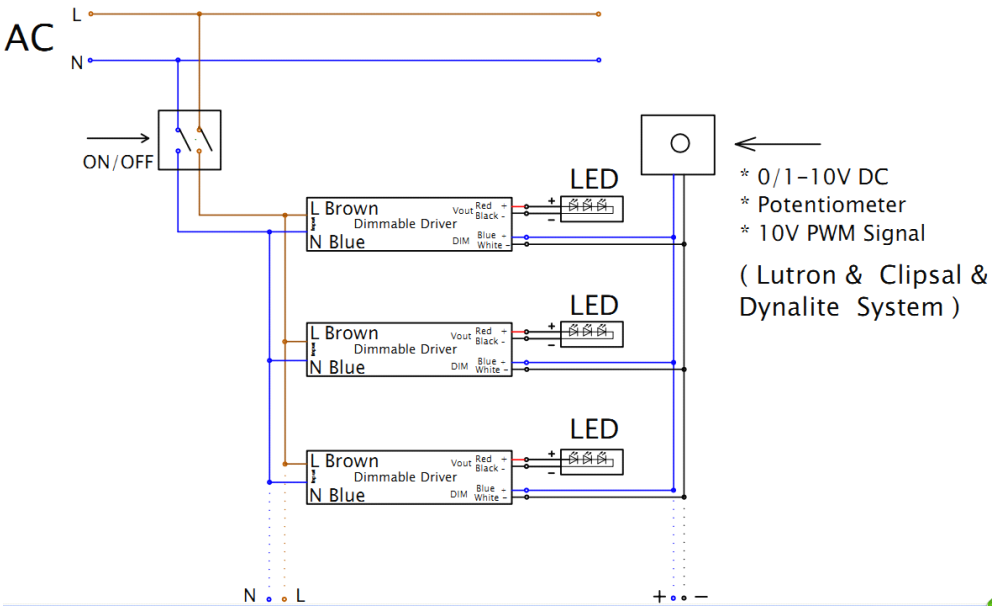
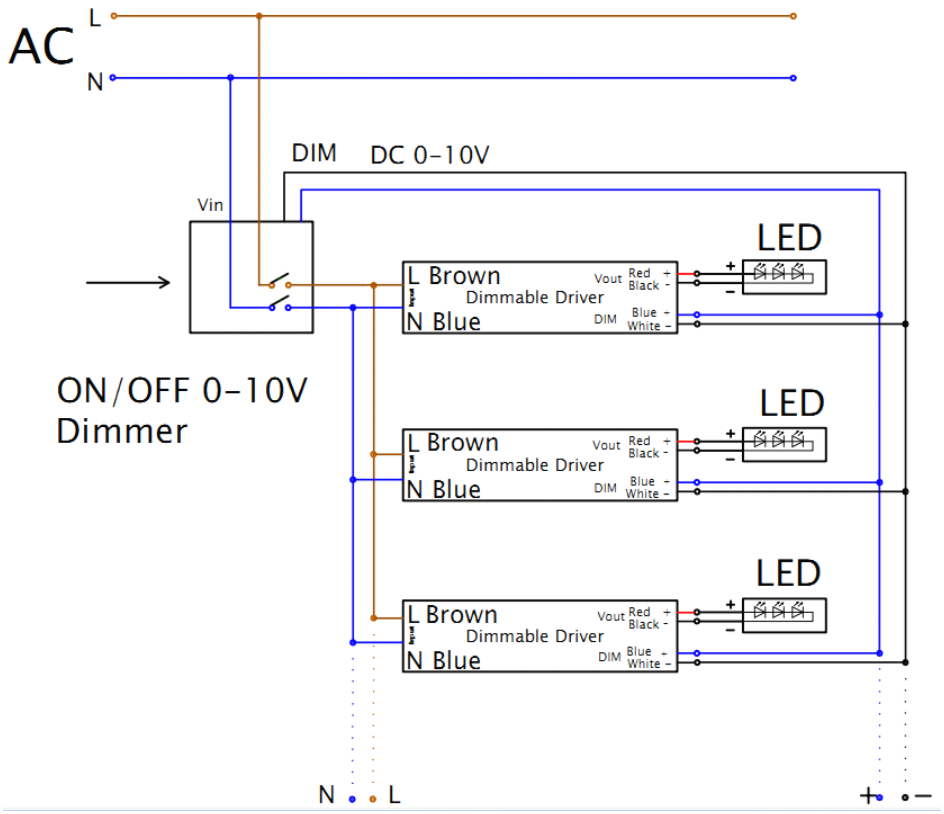
■ Connect Drawing





■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;
4) If driver cannot work normally, don't maintain privately; Have any questions, please contact Wellforces