

KID-DIM Series 20W

Whole Family: KID-XXX-DIM [10W 20W 40W 60W]



Class 2 Class P SELV



RoHS



Driver with UL



Driver with SAA

Features

Output:	Constant Current
Range:	200-240VAC(EU) & 100-277VAC(US)
PFC design:	Built-in active PFC function
Efficiency:	Up to 81%
Protections:	Short circuit/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full protection plastic housing, for dry and damp locations
Dimming function:	<u>0-10V dimming</u> : 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming range:	0-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

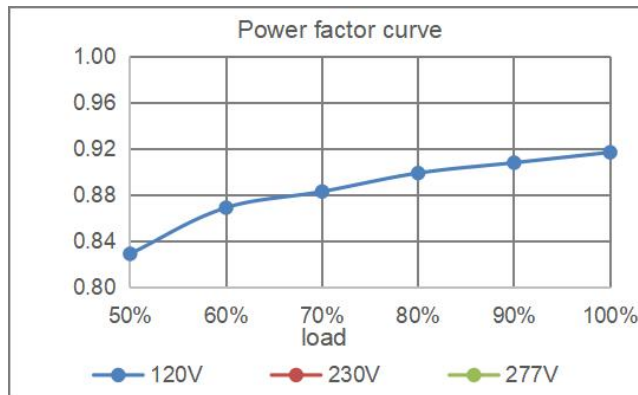
0-10V/1-10V/Potentiometer/10V PWM LED Constant Current driver with DIP Adjustment Multi-current
KID-020-DIM series 20W

Specification

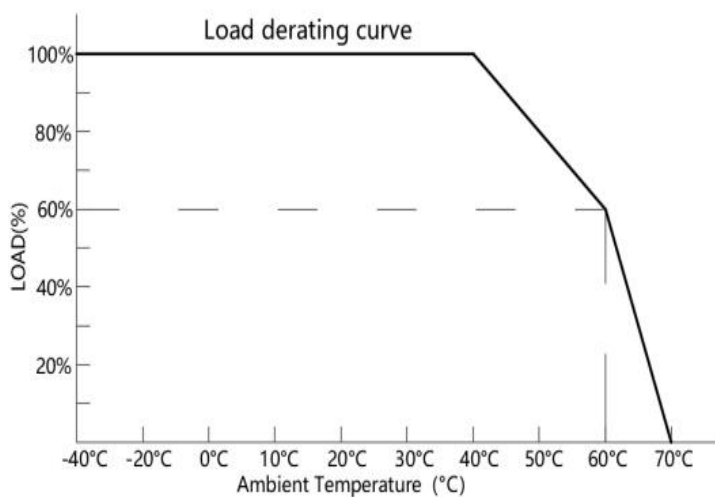
T ON **L** OFF

Model		KID-020-DIM							
Output	Rated current (mA)	250 LLL	350 TLL	400 LTLL	450 TTLL	500 LLLT	550 TLLT	600 LLTT	700 TTTT
	Current Tolerance	±5%							
	DC Voltage (V)	3-42V	3-42V	3-42V	3-42V	3-40V	3-36V	3-33V	3-29V
	Rated power (W)	10.5W	14.7W	16.8W	18.9W	20W	19.8W	19.8W	20.3W
Input	Rated Voltage	200-240VAC(EU) & 100-277VAC(US)							
	Rated Frequency	47~63HZ							
	THD(Typ.) @ full load	7.1%@120VAC 60Hz		10.14%@230VAC 50Hz		15.61%@277VAC 60Hz			
	Power Factor @ full load	0.99@120VAC 60Hz		0.95@230VAC 60Hz		0.9@277VAC 60Hz			
	Efficiency @ full load	81% @120VAC 60Hz		81%@230VAC 60Hz		80%@277VAC 60Hz			
	AC Current (Max.)	0.15A(EU) & 0.3A(US)							
	Inrush Current (Typ.)	3.12A, 24us@50%Ipeak@120V 11.2A, 22.8us@50%Ipeak@230V 10.2A, 26.4us@50%Ipeak@277V							
	Leakage current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed							
	Over temperature	Ambient temp. over 50℃±5℃, output current will be reduced to 50%; Ambient temp. over 60℃±5℃, output current will be reduced to 0%;Ambient temp. reduce to 45℃±5℃, recovers automatically .							
Environment	Working TEMP.	~40~+60℃							
	Working Humidity	20~90%RH, non-condensing							
	Storage TEMP. Humidity	-40~+60℃, 10~95%RH							
	TEMP. coefficient	±0.03%/℃ (0~50℃)							
	Vibration	10-500Hz, 2G 10min./1 cycle, period for 60 min.each along X,Y,Z axes							
Safety	Safety standards	EN61347-1 EN61347-2-13(EU) & UL8750 CAN/CSA-C22.2 No. 250.13 (US)							
	Withstand voltage	I/P-O/P:3.75KVAC (EU) & I/P-O/P:1.8KVAC (US)							
	Isolation resistance	I/P-O/P:100MΩ / 500 VDC / 25℃ / 70%RH							
	EMC Emission	EN55015 EN61000-3-2,3 (EU) & FCC Part 15 Subpart B, ANSI C63.4a-2017 (US)							
Others	Net Weight	0.15Kg							
	Dimension	159.5*43*20mm(L*W*H)							
	Packing	340*250*135mm 50PCS/CTN							
Notes	1. All parameters NOT specially mentioned are measured at rated load and 25℃of ambient temperature.. 2. Tolerance: includes set us tolerance, line regulation and load regulation.								

Efficiency Curve (efficiency vs output load)



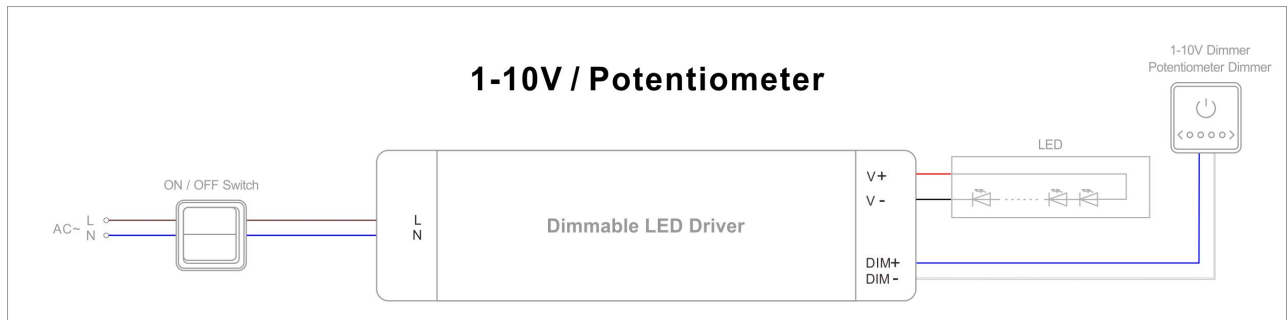
Derating Curve (output load vs TEMP.)



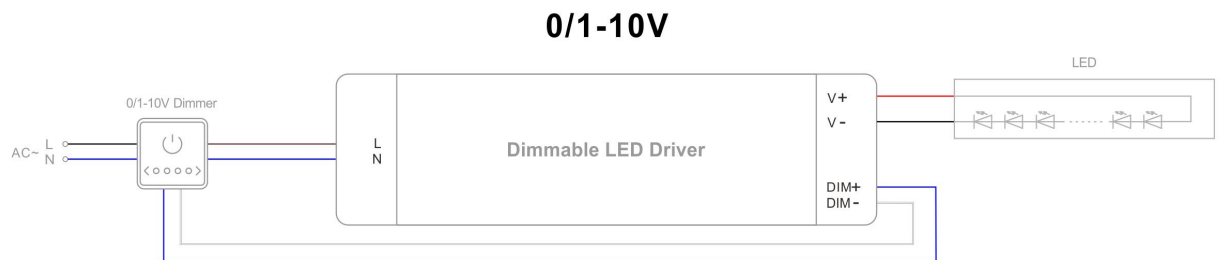
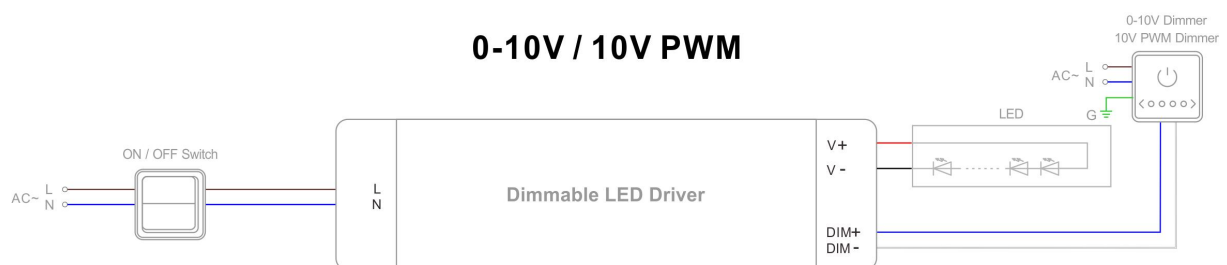
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid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

Dimming Operation and Connecting Diagram (For European Market)

- **Diagram 1:** 0-10 dimmer/control system or 1-10V dimmer /control system or 10V PWM or Potentiometer can be used;



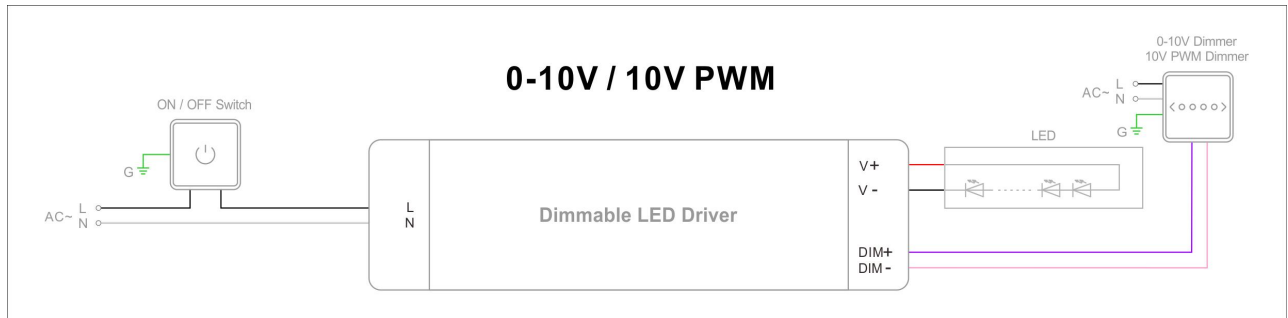
- **Diagram 2:** 0-10/ 1-10V dimmer/control system with ON/OFF function can be used;



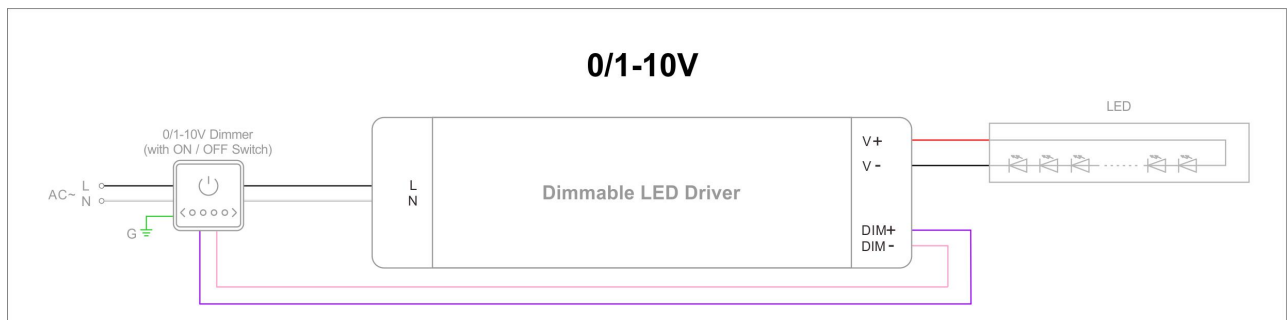
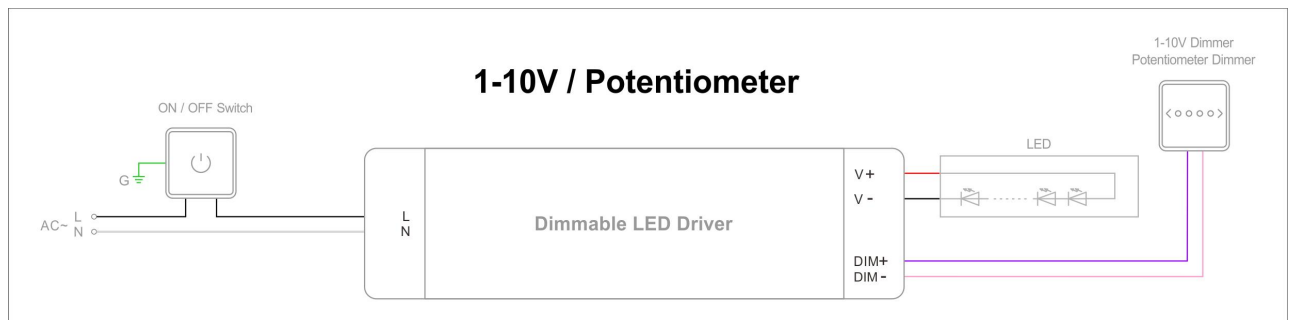
0-10V/1-10V/Potentiometer/10V PWM LED Constant Current driver with DIP Adjustment Multi-current KID-020-DIM series 20W

Dimming Operation and Connecting Diagram (For North American Market)

- **Diagram 1: 0-10 dimmer/control system or 1-10V dimmer /control system or 10V PWM or Potentiometer can be used;**



- **Diagram 2: 0-10/ 1-10V dimmer/control system with ON/OFF function can be used;**



Instruction

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