

## KVF-TDHL Series 30W

Whole Family: KVF-XXXXX-TDHL 12V/ 24VDC - [ 30W 36W 60W 100W 150W ]



RoHS



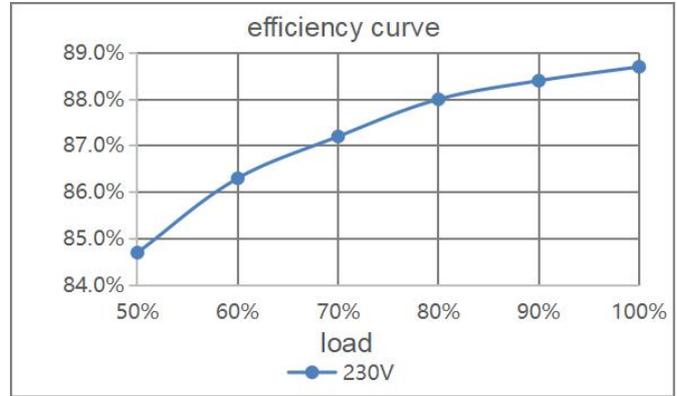
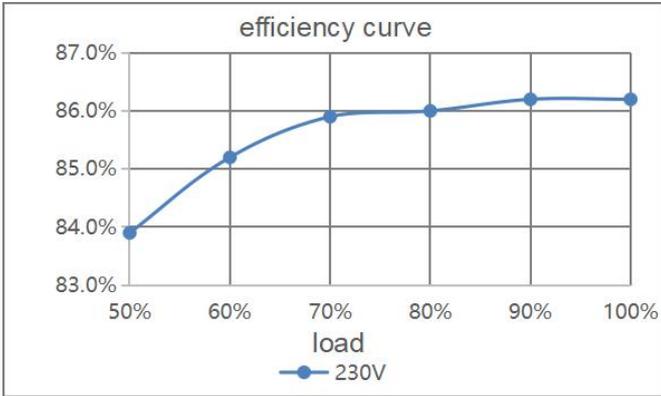
### Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 88%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66
Dimming function:	<u>Phase dimming</u> : work with leading edge and trailing edge, TRIAC dimmers
Dimming range:	0-100%
Application:	Suitable for the application of LED lighting
Warranty:	5 years warranty
PWM Output Frequency	20KHz ( Flicker-free)

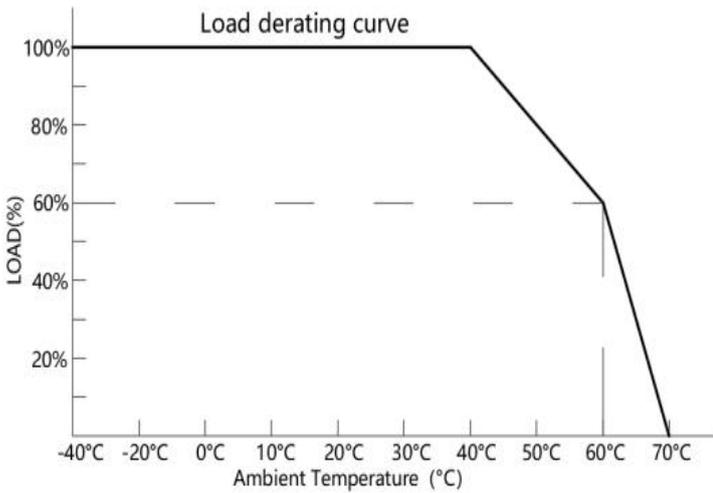
**Phase cut /Triac dimmable driver - PWM output Dimmable LED driver 30W**
**Specification**

Model		KVF-12100-TDHL	KVF-24100-TDHL
Certificate		ENEC / SAA / CE / CB / RoHS / Reach	
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	≤2%	≤1%
	Rated current	8.33A	4.17A
	Rated power	100W	
	Load Regulation	≤0.5%	
Input	Voltage Range	200-240VAC	
	Frequency Range	47 - 63Hz	
	Power Factor @ full load	0.96@230VAC	
	THD(Typ.) @ full load	≤10%	
	Efficiency @ full load	86%	88%
	AC Current (Max.)	0.61A@200VAC	0.59A@200VAC
	Inrush Current (Typ.)	52A,210us@50%Ipeak@230VAC	
	Leakage current	<0.5mA	
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault condition is removed	
	Over Load	≤120% constant current limiting, recovers automatically after fault condition is removed	
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after the cooling	
Environment	Working TEMP.	-40~+60°C (see below derating curve)	
	Working Humidity	20 - 95%RH non-condensing	
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing	
	TEMP.coefficient	±0.03%/°C(0 - 50°C)	
	Vibration	10~500Hz, 5G 12m in./1 cycle, period for 72min. each along X,Y,Z axes	
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 EN62493 (US)	
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (US)	
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH	
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3 (US)	
Others	Net Weight	0.47Kg	
	Dimension	330.6*32*23mm(L*W*H)	
	Packing	360*270*175mm 30pcs /CTN 15.2Kg/CTN	
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation .		

### Efficiency Curve (efficiency vs output load)

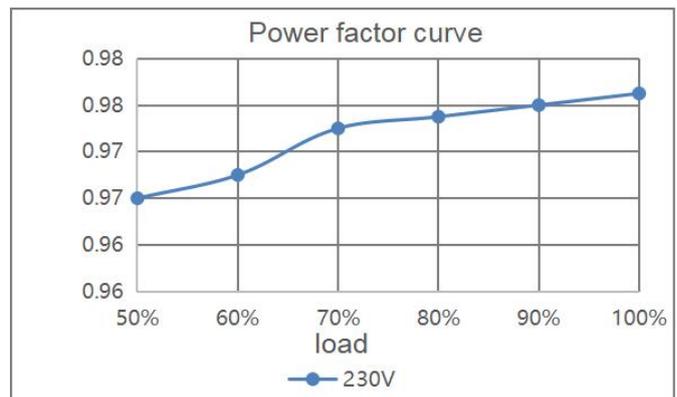
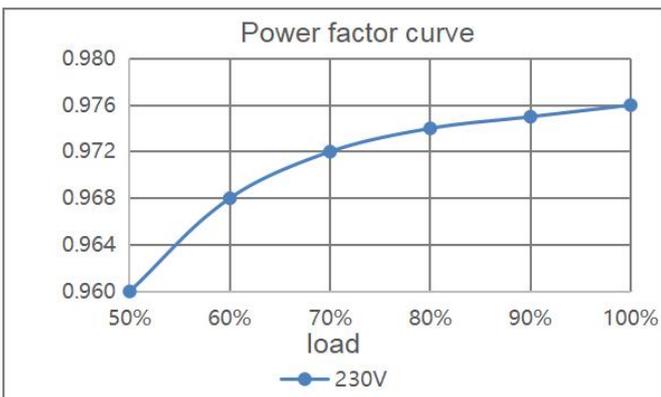


### Derating Curve (output load vs TEMP.)



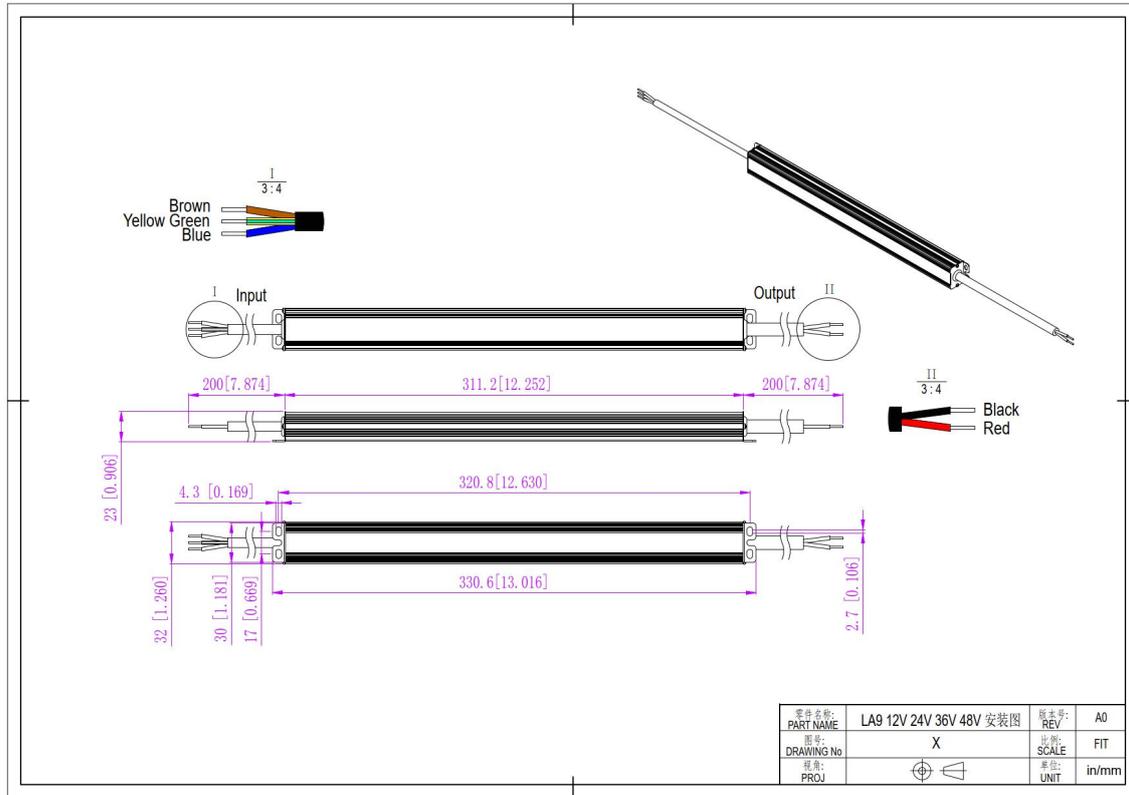
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid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

### Power Factor Curve



Phase cut /Triac dimmable driver - PWM output Dimmable LED driver 30W

**Mechanical Specification**



**12V&24V Version**

1. Input cable H05RN-F 3\*1.0mm<sup>2</sup>: the Brown cable to (L), the Blue cable to (N) and the Yellow & Green cable to (G) .
2. Output cable H05RN-F 2\*1.0mm<sup>2</sup>: Red cable (+) to Positive side(+), Black cable(-) to Negative side (-).
3. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

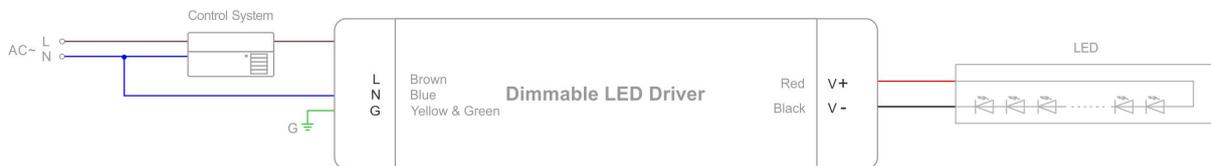
1. Any other requests for, we can customized.

## Dimming Operation and Connecting Diagram

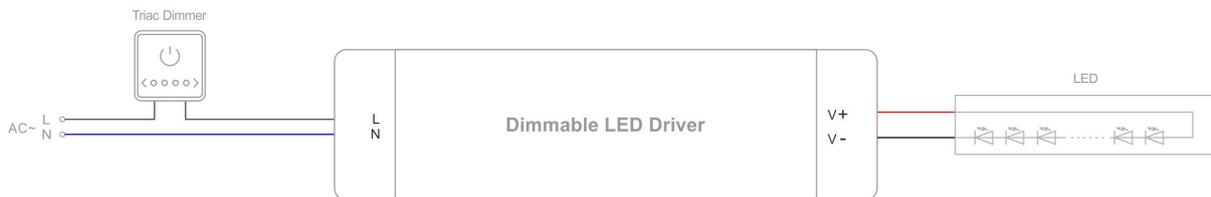
### TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with leading edge and trailing edge, TRIAC dimmers.
3. Min. loading is about 10%.
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

#### Triac



#### Triac



## 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](http://www.scpower.net.cn/en)