

KVF-TDHL Series 30W

Whole Family: KVF-XX030-TDHL (XX=12V/24VDC) [30W 36W 60W 100W 150W]



IP66
SELV

RoHS



Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 79%
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

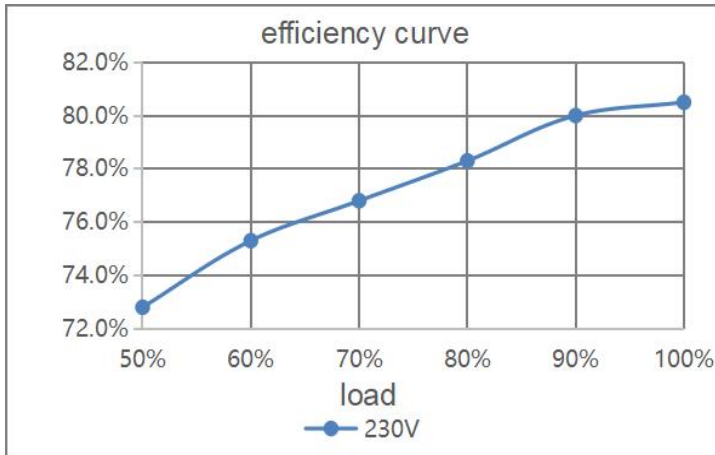
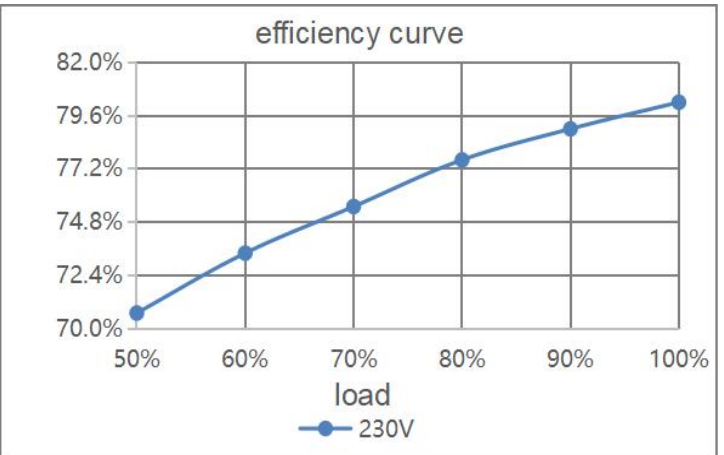
Phase cut /Triac Dimmable LED Driver - PWM output - KVF-TDHL Series 30W

U.S. Patents No. 9,942,959; 10,039,167; 9,661,710; 9,961,724

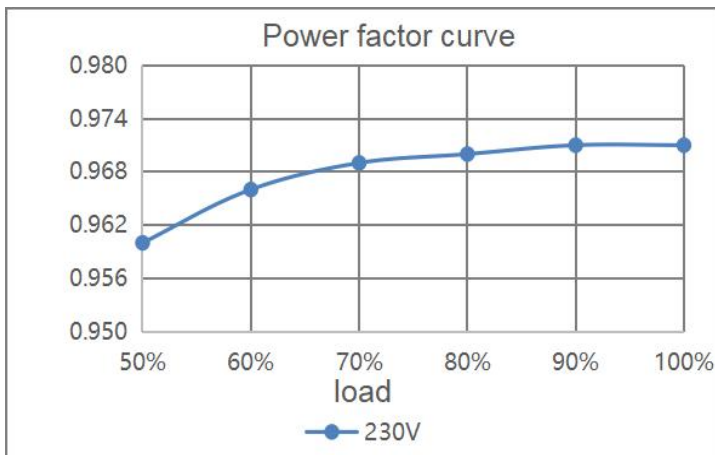
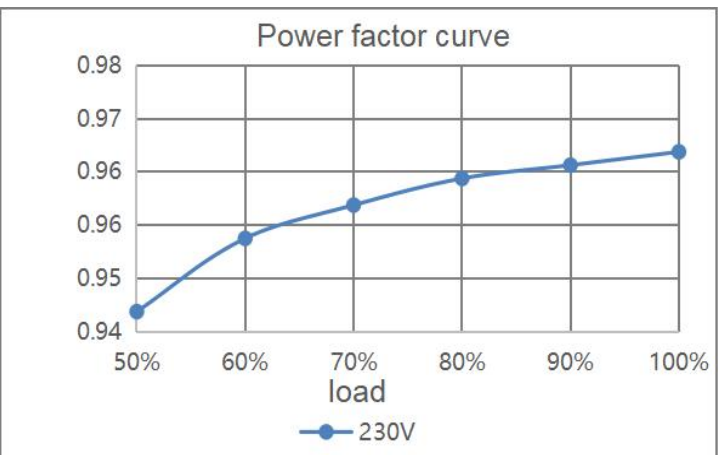
Specification

Model		KVF-12030-TDHL	KVF-24030-TDHL
Certificate		ENEC / CE / UKCA / SAA / SELV / RoHS / Reach	
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	≤2%	≤1%
	Rated current	2.5A	1.25A
	Rated power	30W	
	Load Regulation	≤0.5%	
Input	Voltage Range	200~240VAC	
	Frequency Range	50 / 60Hz	
	Power Factor @ full load	0.96@230VAC	
	THD(Typ.) @ full load	≤20%	
	Efficiency @ full load	79%	
	AC Current (Max.)	0.25A	
	Inrush Current (Typ.)	34A, 104us @50%Ipeak 230VAC	
	Leakage current	<0.5mA	
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault condition is removed	
	Over Load	105%~120% shut down o/p voltage, recovers automatically after fault condition is removed	
	Over temperature	Shell surface temp.100°C±10°C shut down o/p voltage, automatically recover after cooling	
Environment	Working TEMP.	-40~+40°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 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 I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC	
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH	
	EMC Immunity	EN61547 EN61000-4-2,3,4,5,6,11	
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3	
Others	Net Weight	0.33KG	
	Dimension	261*32*20.1mm(L*W*H)	
	Packing	310*285*195mm 30pcs/CTN	
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°Cof ambient temperature. 2. Tolerance: includes set up tolerance and load regulation.		

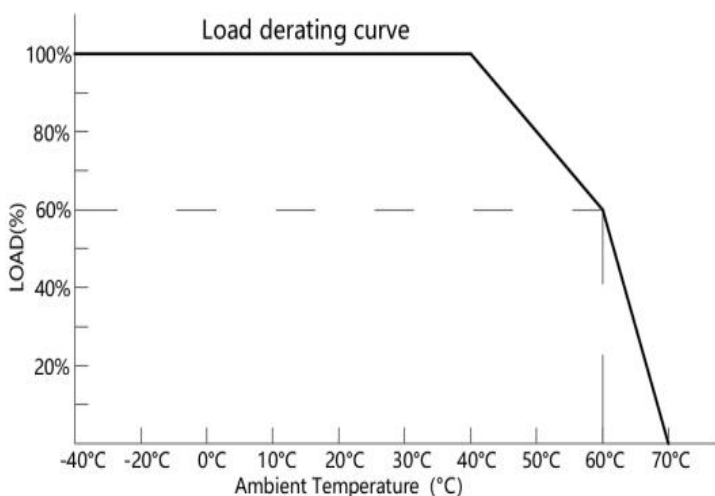
Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)

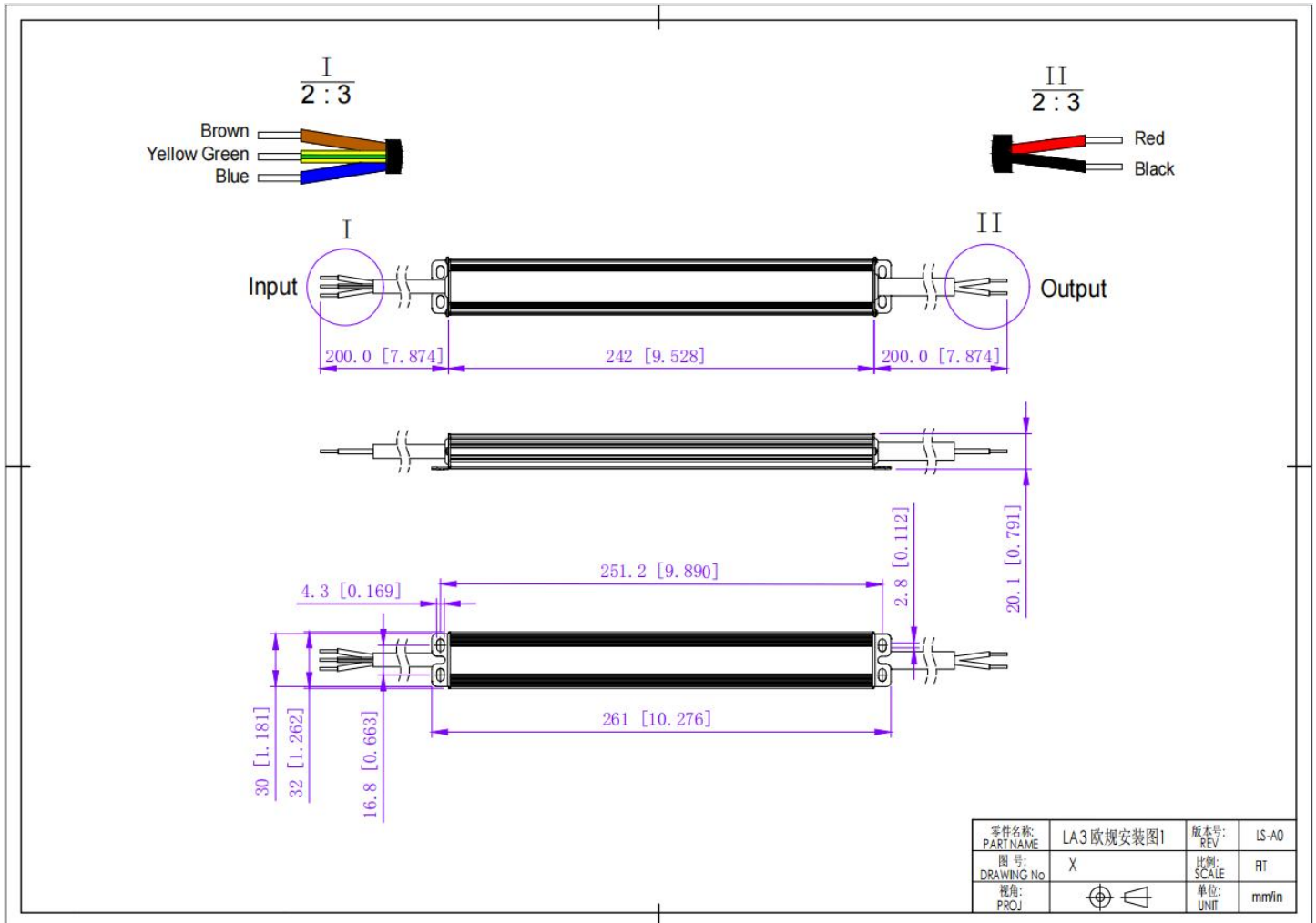


Derating Curve (output load vs TEMP.)



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.

Mechanical Specification



12V&24V Version

European wire gauge	
LA3	
Input wire	Brown(L) Blue(N) Yellow Green(G) (3*1.0mm ²)
Output wire	Red(V+) Black(V-) (2*0.824mm ²)
Remark: Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.	

Warm tip:

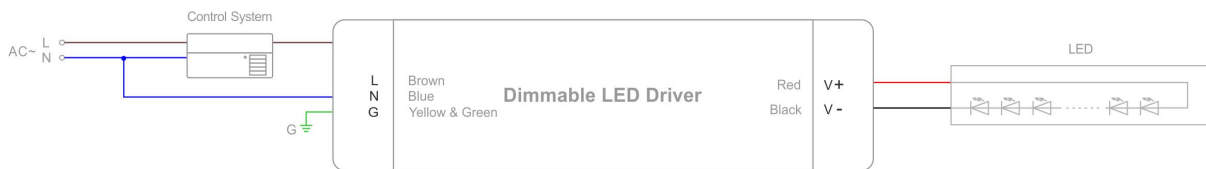
Any other requests for, we can customize.

Dimming Operation and Connecting Diagram

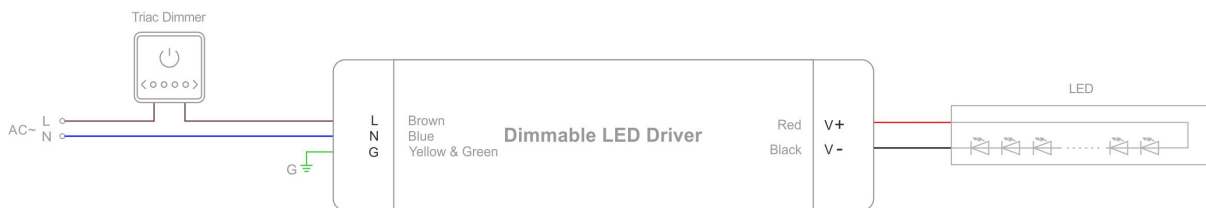
TRIAC/Phase cut dimming

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



Instructions

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.