

Phase cut /Triac dimmable driver-PWM output Dimmable LED driver 500W 600W

TRIAC Dimmable Driver Series 600W

Series: TRIAC-24VIP66-600W | TRIAC-48VIP66-600W



Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 93.5%
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

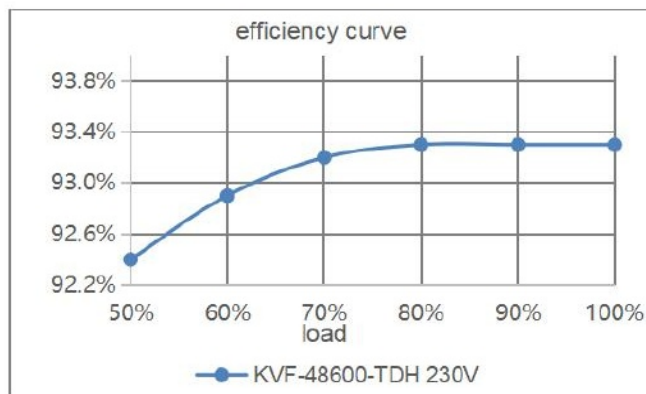
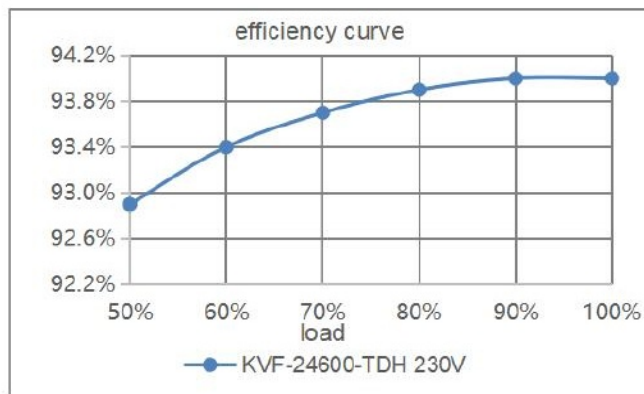
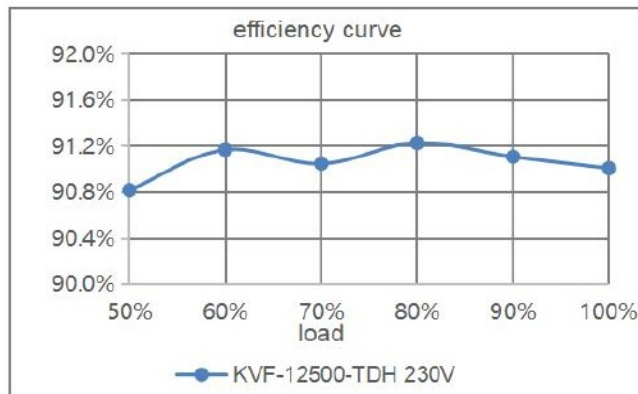
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Specification

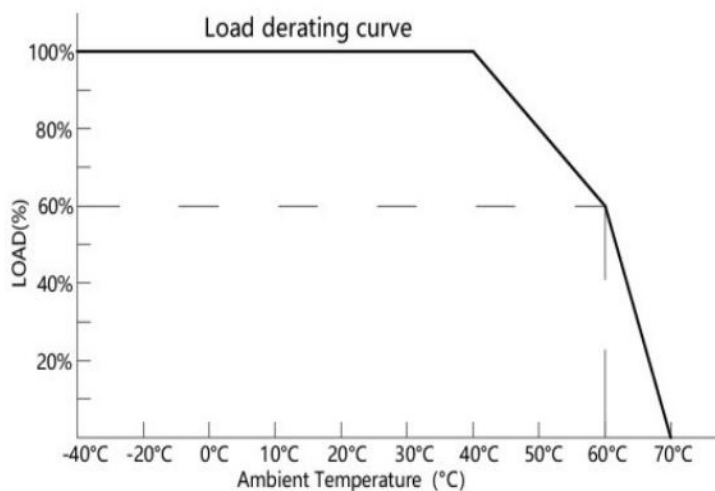
Model		TRIAC-24VIP66-600W		TRIAC-48VIP66-600W	
Certificate		ENEC / CE / CB / RoHS / Reach			
Output	DC Voltage	12V	24V	48V	
	Voltage Tolerance	±0.5V			
	Voltage Regulation	≤0.1%			
	Rated current	41.7A	25A	12.5A	
	Rated power	500W	600W		
	Load Regulation	≤0.6%	≤0.6%	≤0.5%	
Input	Voltage Range	200-240VAC			
	Frequency Range	47 - 63Hz			
	Power Factor @ full load	PF≥0.98			
	THD(Typ.) @ full load	≤10%@230VAC@full load			
	Efficiency @ full load	91%	93.5%	93%	
	AC Current (Max.)	2.8A	3.3A	3.3A	
	Inrush Current (Typ.)	98A, 66us@50%Ipeak 220VAC 58A, 810us@50%Ipeak 170VAC 76A,148us@50%Ipeak 265VAC			
Leakage current	<0.5mA				
Protection	Short Circuit	Hiccup mode, re-power on to recover after fault condition removed			
	Over Load	≤120% Hiccup mode, recovers automatically after fault condition is removed			
	Over temperature	Shell surface temp.100°C±10°C shut down o/p voltage,automatically recover after the temperature drops.			
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 12min./1 cycle, period for 72min. each along X,Y,Z axes			
Safety & EMC	Safety standards	EN61347-1 EN61347-13 (EU)			
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (EU)			
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH			
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3 (EU)			
Others	Net Weight	2Kg			
	Dimension	322*78*43.7mm(L*W*H)			
	Packing	415*360*190mm 10pcs /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 .				

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Efficiency Curve (efficiency vs output load)



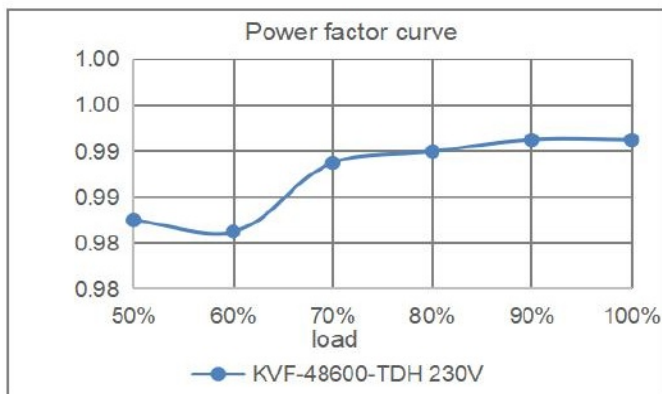
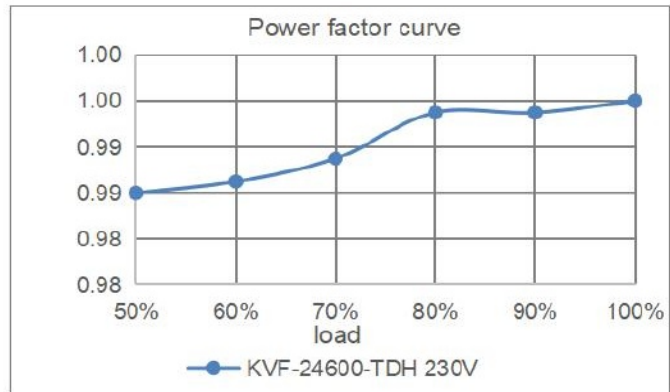
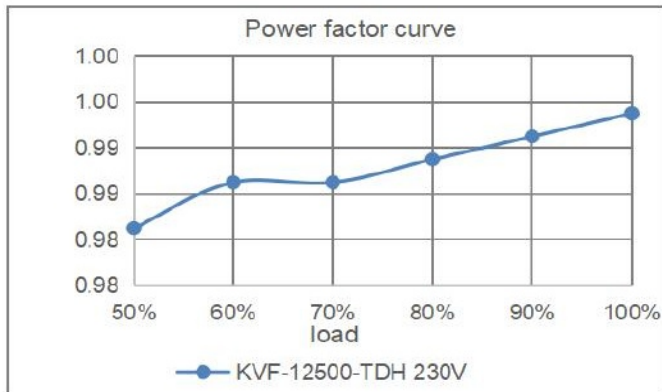
Derating Curve (output load vs TEMP.)



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.

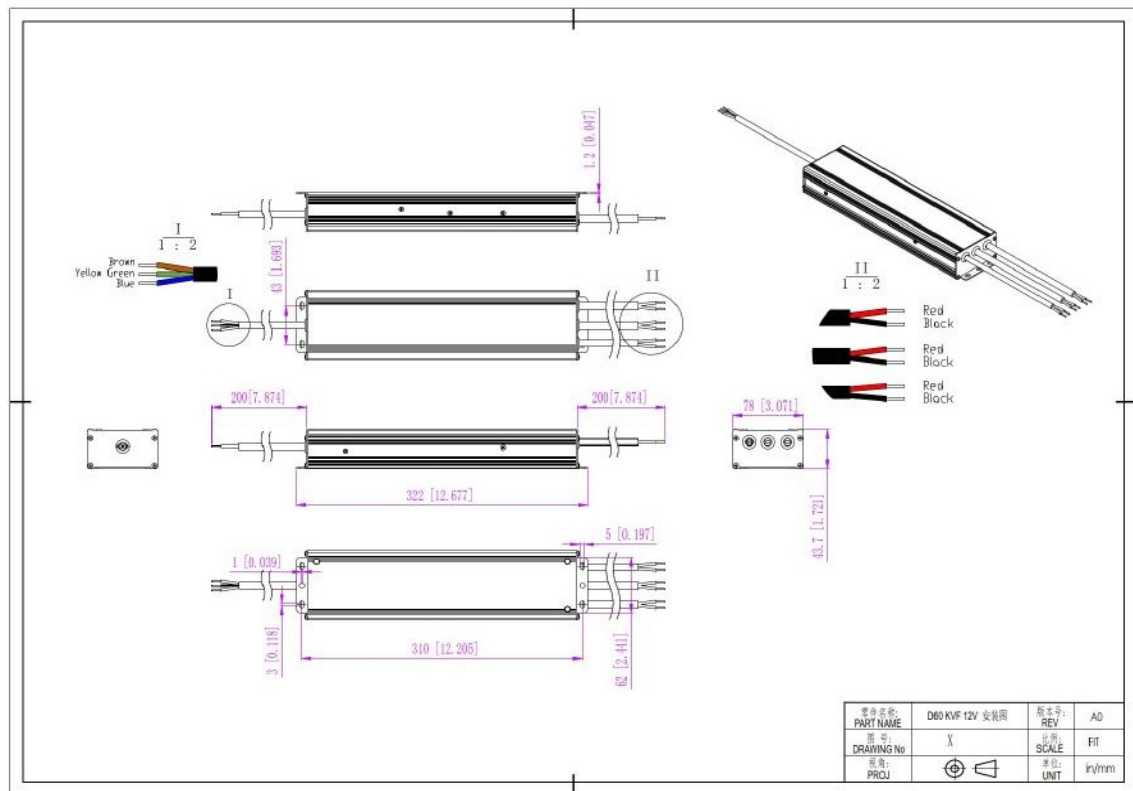
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Power Factor Curve



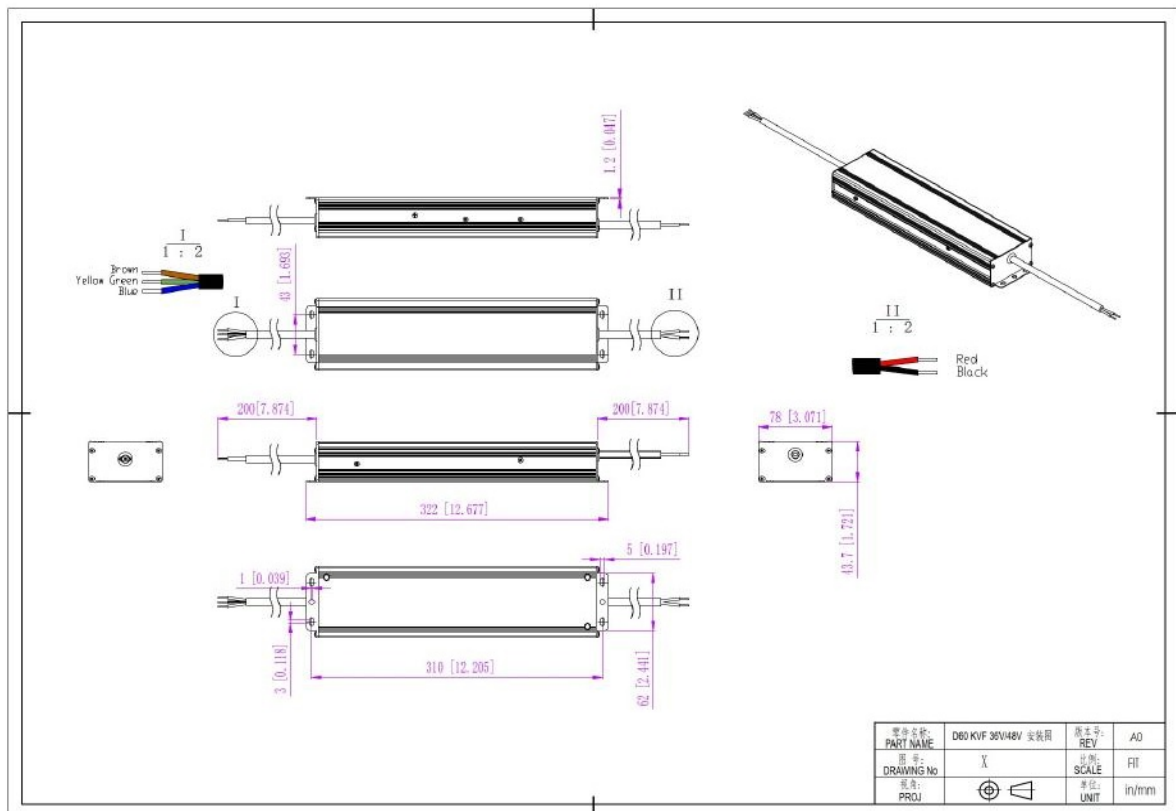
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Mechanical Specification



12V Version

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24V&48V Version

1. Input cable H05RN-F 3*1.0mm², the Green cable to (FG), Brown cable to L, and Blue cable to N of Mains AC.
2. Output cable SJOW 2*2.08mm², Red cable (+) to LED Positive side (+), Black cable (-) to LED 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 cable, we can customized.
2. Output wires each set of 14 AWG wires ,which can carry a maximum current of 18A.

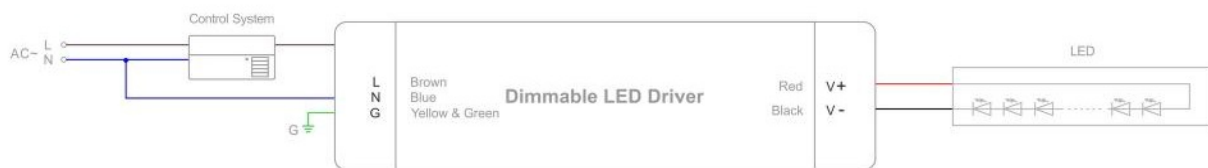
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Dimming Operation and Connecting Diagram

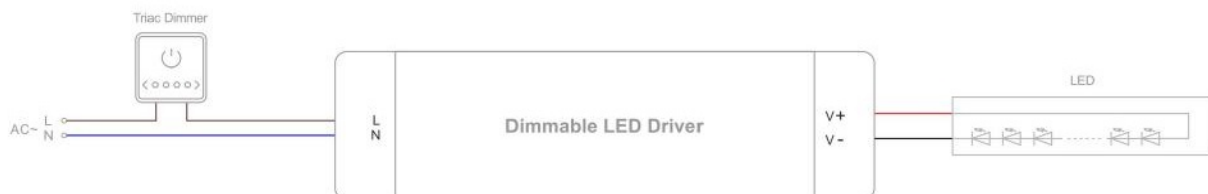
TRIAC/Phase cut dimming

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 UK LED Lights - we're happy to help.

Please visit our website or contact us for more information.