TRIAC Dimmable Driver Series 360W

Series: TRIAC-24VIP66-360W | TRIAC-48VIP66-360W

Features

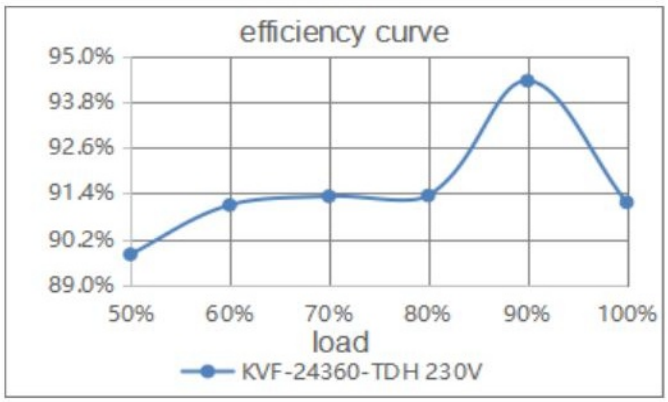
Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 91%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66
Dimming function:	Phase dimming: work with leading edge and trailing edge, TRIAC dimmers.
Dimming range:	0-100%
Application:	Suitable for the application of LED lighting
Warranty:	5 years warranty

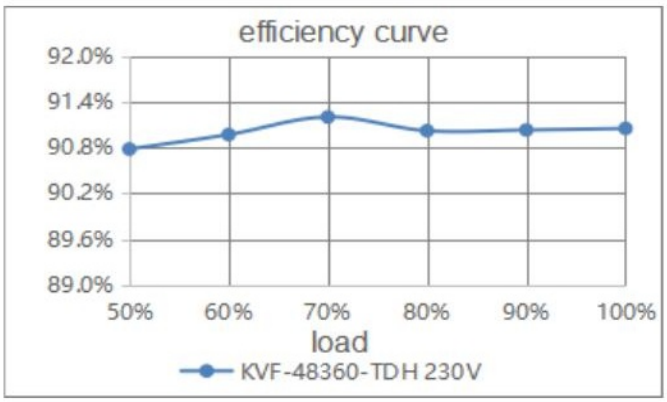
Specification

Model		TRIAC-24VIP66-360W	TRIAC-48VIP66-360W
Certificate		SAA(GMA certificate) / CE / RoHS	
Output	DC Voltage	24V	48V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	≤0.5%	
	Rated current	15A	7.5A
	Rated power	360W	
	Load Regulation	≤1%	≤1%
Input	Voltage Range	200-240VAC	
	Frequency Range	50HZ	
	Power Factor @ full load	≥0.95@230VAC	
	THD(Typ.) @ full load	≤15%@230VAC	
	Efficiency @ full load	91%@230VAC	
	AC Current (Max.)	2.4A	2.03A
	Inrush Current (Typ.)	116A, 48us@50%230VAC	108A, 58us@50%230VAC
	Leakage current	<0.5mA	
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Load	≤120% Hiccup mode, recovers automatically after fault condition is removed	
	Over temperature	Shell surface temp.100℃±10℃ shut down o/p voltage,automatically recover after the temperature drops.	
Environment	Working TEMP.	-40~+60℃ (see below derating curve)	
	Working Humidity	20 - 95%RH non-condensing	
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing	
	TEMP.coefficient	±0.03%/℃(0 - 50℃)	
	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(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℃ / 70%RH	
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3 & AS CISPR 15:2017 CISPR 16-2-3	
Others	Net Weight	1.65Kg	
	Dimension	276*78*47mm(L*W*H)	
	Packing	390*310*185mm 10pcs /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 and load regulation .		

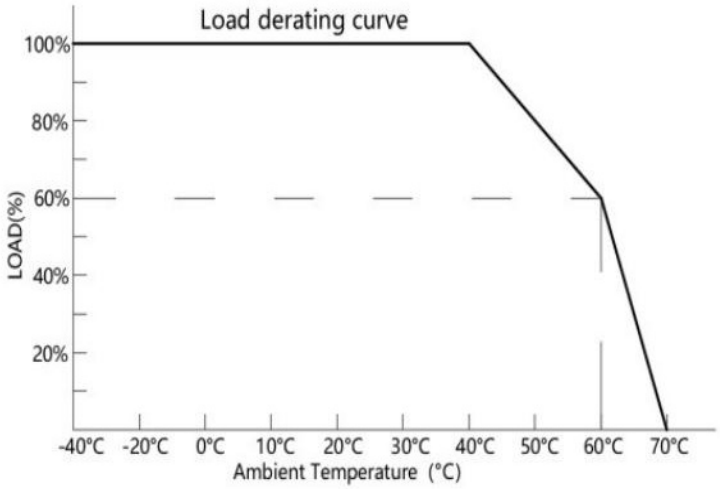
Efficiency

Curve (efficiency vs output load)



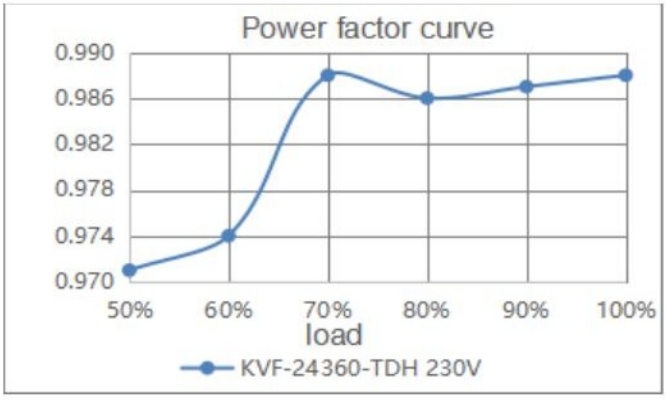


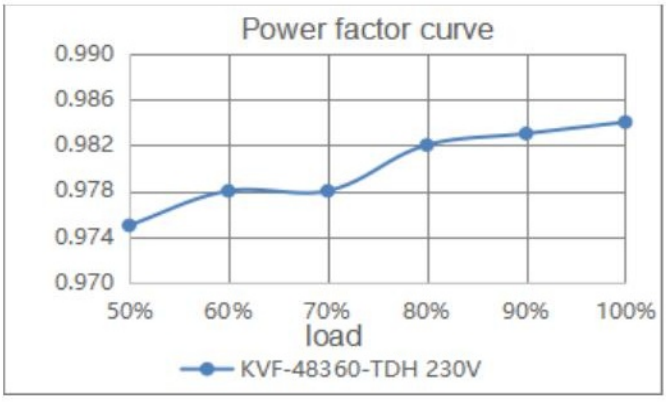
Derating Curve (output load vs TEMP.)



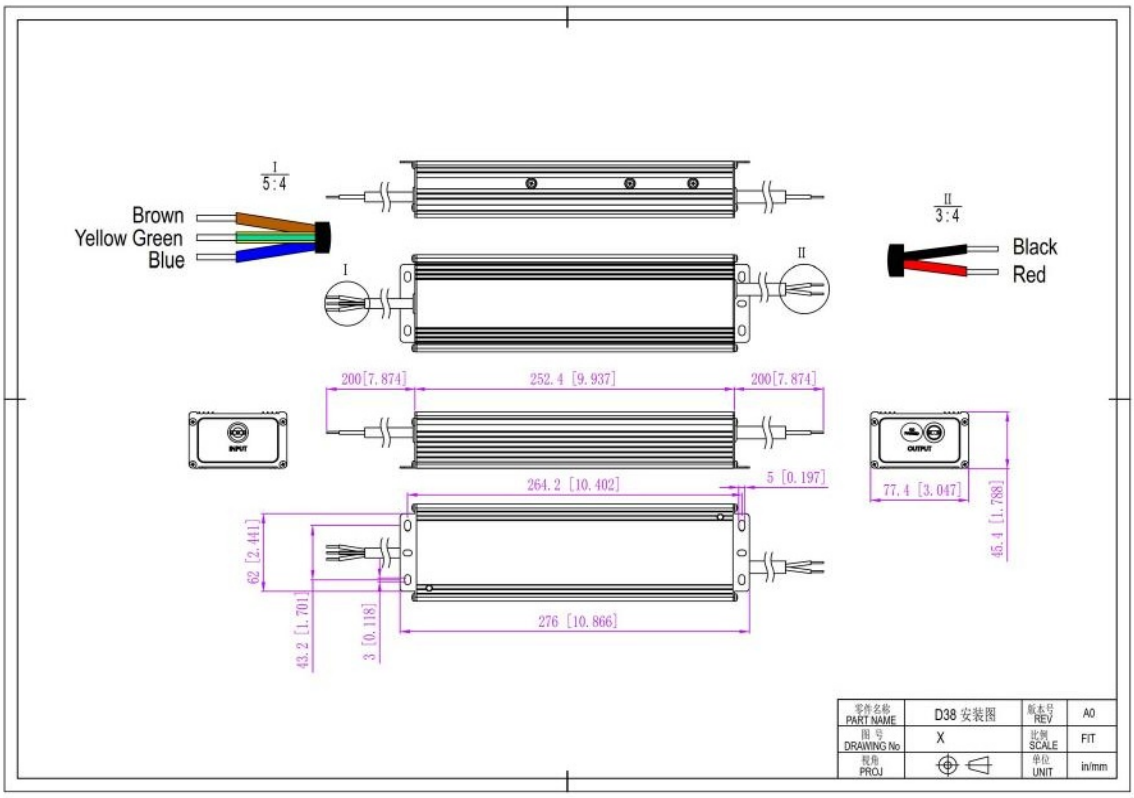
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid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

Power Factor Curve





Mechanical Specification



24V&48V Version

1. Input cable 3*1.0mm^2, the Green cable to (FG), Brown cable to L, and Blue cable to N of Mains AC.
2. Output cable 2*2.08mm^2, 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:

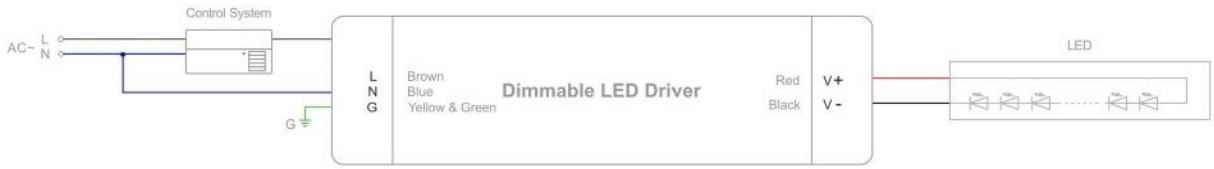
1. Any other requests for, we can customized.

Dimming Operation and Connecting Diagram

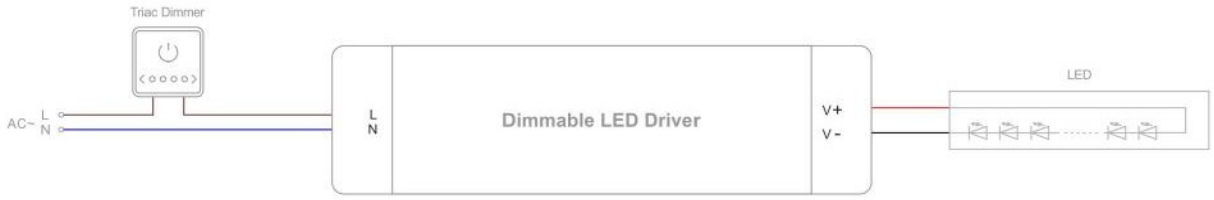
TRIAC/Phase cut dimming

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 ATOM LED — we're happy to help.
Please visit our website or contact us for more information.