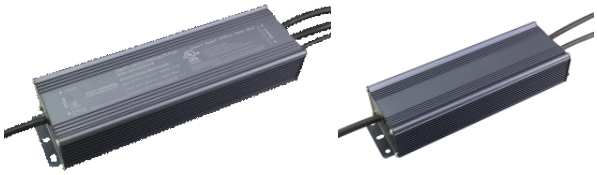
Phase cut /Triac dimmable driver-PWM output KVF-Cxx-TDW series

Class 2 muti-channels 180W 192W

Whole family
KVF-CXXXXX-TDW 12VDC 24VDC
180W 192W 288W 300W
Class 2 muti-channels



c UL us LISTED E495946 Class 2 Class P TYPE HL

■Features

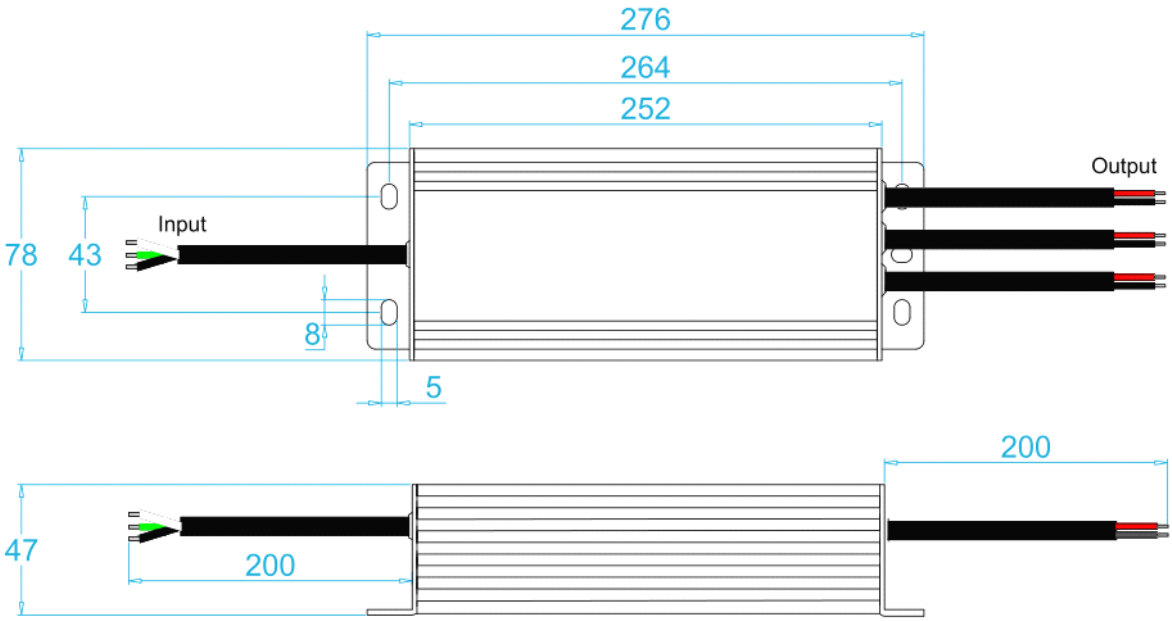
·Output constant voltage, class 2 muti-channels
·UL, cUL listed, Class 2, Class P, Type HL
·Universal AC input: 100-277VAC
.Power Factor: up to 0.99
·High efficiency : up to 89%
·Dimming range: 0-100%
·Load: 10-100%
·Protection:short circuit/over loading/ Over temperature
·PWM output, does not change the color index
·Full protection aluminum housing, for dry, damp and wet location
·Flicker-free, PWM output
·Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
·Cooling by free air convection
·Suitable for LED lighting and moving sign applications

■Specification

Model		KVF-C12180-TDW	KVF-C24192-TDW
Certificates		UL cUL FCC	
Output	DC Voltage	12V	24V
	Rated Current	3*5A	2*4A
	Rated Power	180W (3*60W)	192W (2*96W)
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
Input	Voltage Range	100-277VAC	
	Frequency Range	47-63Hz	
	Power Factor（Typ.）@ full load	0.99@120VAC 0.94@277VAC	0.99@120VAC 0.94@277VAC
	THD（Typ.）@ full load	<20%	<20%
	Efficiency（Typ.）@ full load	86%@120V 88%@277VAC	87%@120V 89%@277VAC
	AC Current（Max.）	2.2A@100VAC	2.3A@100VAC
	Inrush Current （Typ.）	19A ,50%,1.3ms @120VAC ; 38A,50%,960us @277VAC	
	Leakage current	<0.50mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over Loading	≤120% Hiccup mode ,recovers automatically after fault condition is removed	
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling.	
Environment	Working TEMP.	-40～+60℃ (see below derating curve)	
	Working Humidity	20～90%RH, non-condensing	
	Storage TEMP. Humidity	-40～+80℃，10～95%RH	
	TEMP .coefficient	±0.03%/℃（0～50℃）	
	Vibration	10～500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750+UL1310	
	Withstand voltage	I/P-O/P:1.88KVAC	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	FCC 47 CFR Part 15 ,Subpart B	
others	Net. Weight	1.7Kg	
	Size	276*78*47mm (L*W*H)	

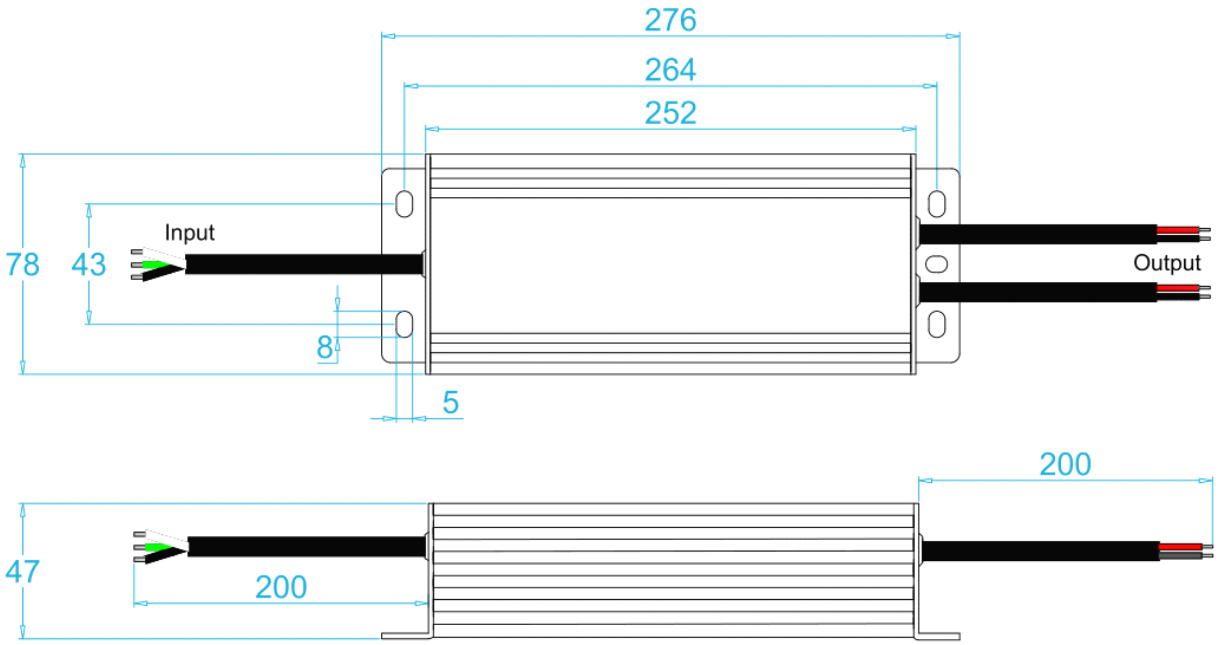
	packing	10pcs /CTN
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.	

■ Mechanical Specification



Unite: mm
Tolerance:P 0.5-2mm

KVF-C-12180-TDW



KVF-C24192-TDW

※ Input wire 18AWG Black and White to be connected to AC L and N ,Green wire go ground,

※Output cable 2*16AWG,Red" (+) to LED Positive side (+) , "Black"(-) to LED Negative side (-).

Three groups output cables. of KVF-C12180-TDW and two groups of KVF-C-24192-TDW

※Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

※Note: Any other requests we can customized.

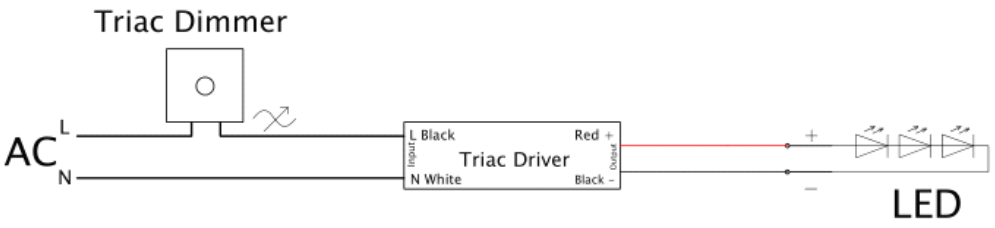
■Dimming Operation

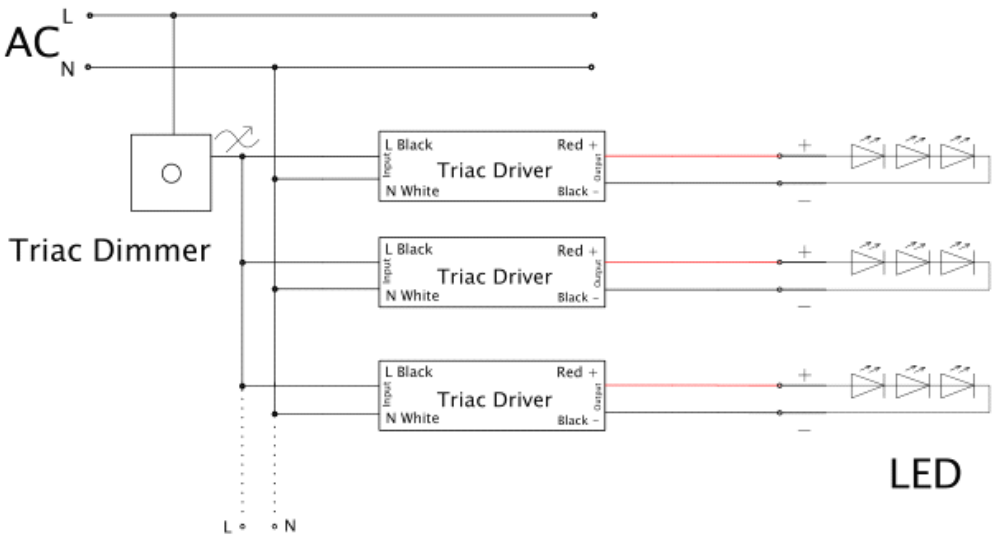
※The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.

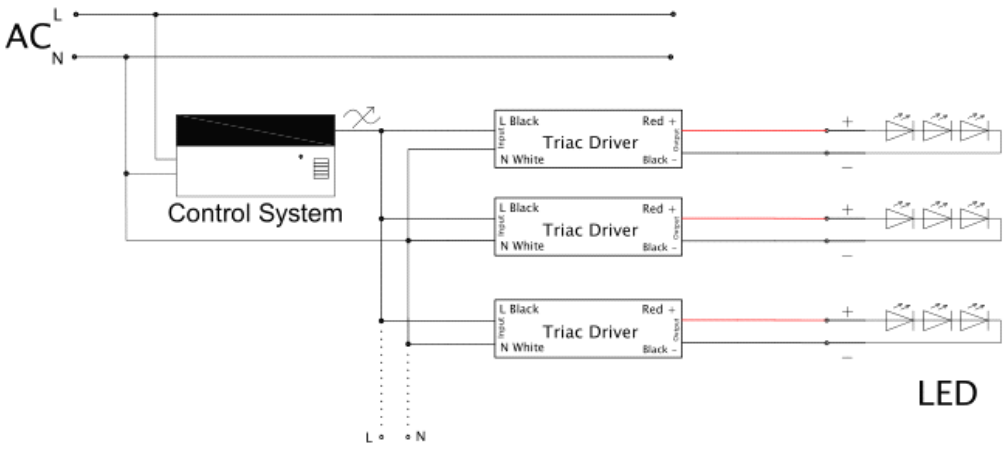
※Usually matching with Forward phase , leading edge , Magnetic low voltage, triac dimmers, or Reverse phase, trailing edge ,Electric low voltage Dimmers.

※Please try to use dimmers with power at least 1.5 times as the output power of the driver.

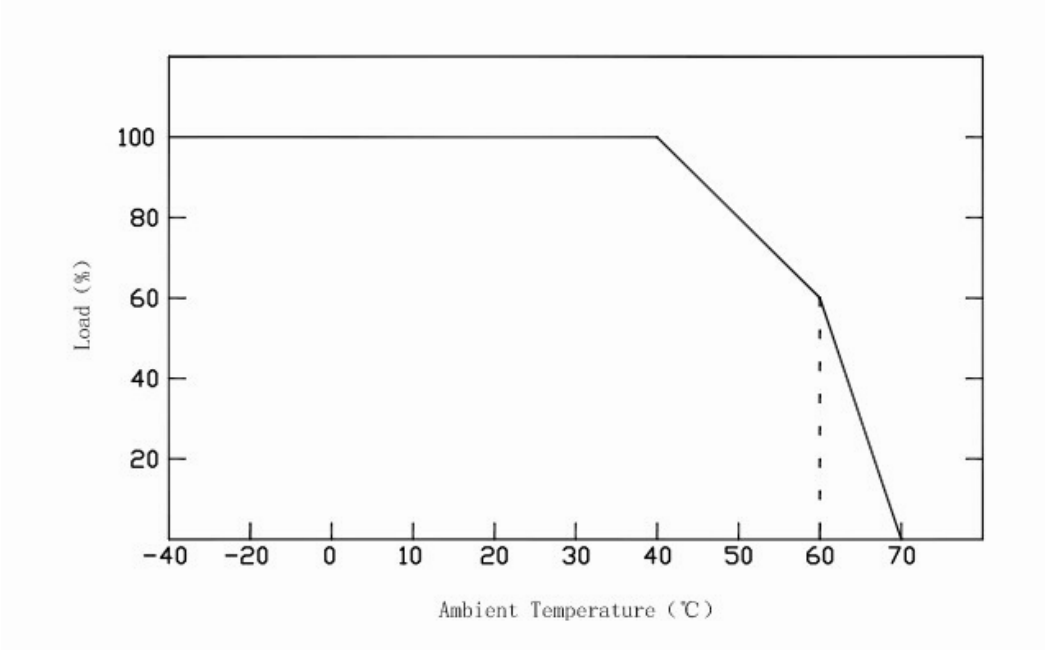
■ Connecting Diagram







■Derating Curve



※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ 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 question, please contact Zhuhai Shengchang.

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