Phase cut /Triac dimmable driver-PWM output PYJD - series 300W



c UL us LISTED E495946 FC Class 2 Class P

■Features

·Output constant voltage
·UL, cUL listed, Class P, Type HL
·Universal AC input: 110-277VAC
.Power Factor: up to 0.99
·High efficiency : up to 88%
·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 location
·Flicker-free
·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		PYJD-12300-TDWJV2	PYJD-24300-TDWJV2
Certificates		FCC UL cUL	FCC UL cUL
Output	DC Voltage	12V	24V
	Rated Current	25A	12.5A
	Rated Power	300W	
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±2%	±1%
Input	Voltage Range	110-277VAC	
	Frequency Range	47-63Hz	
	Power Factor（Typ.）@ full load	0.99@120VAC 0.97@277VAC	0.99@120VAC 0.97@277VAC
	THD（Typ.）@ full load	<20%	
	Efficiency（Typ.）@ full load	86%	88%
	AC Current（Max.）	3.4A@110VAC	
	Inrush Current （Typ.）	20A, 50%, 1.9ms	
	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	
	Withstand voltage	I/P-O/P:1.88KVac	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH	
	EMC EMISSION	FCC Part 15 B	
others	Net. Weight	Driver: about 1.7KG	Driver +Junction box: about 2.4KG
	Size	Driver 276*78*47mm (L*W*H)	Junction box 453*87*60mm(L*W*H)
	packing	10PCS/CTN	

Due to continuous improvements, the information herein may be changed without notice

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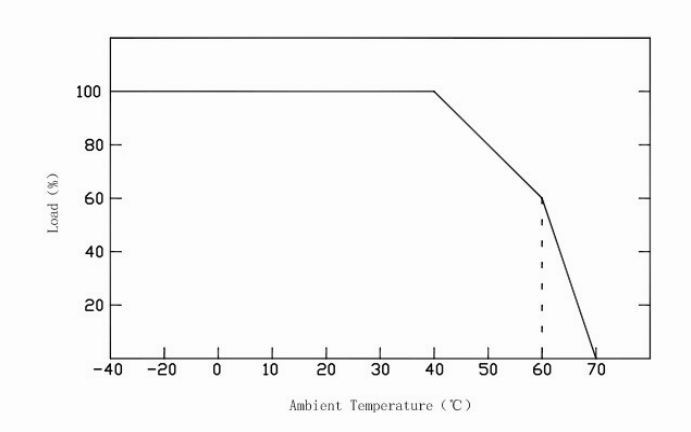
Notes	1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage.

■Derating Curve

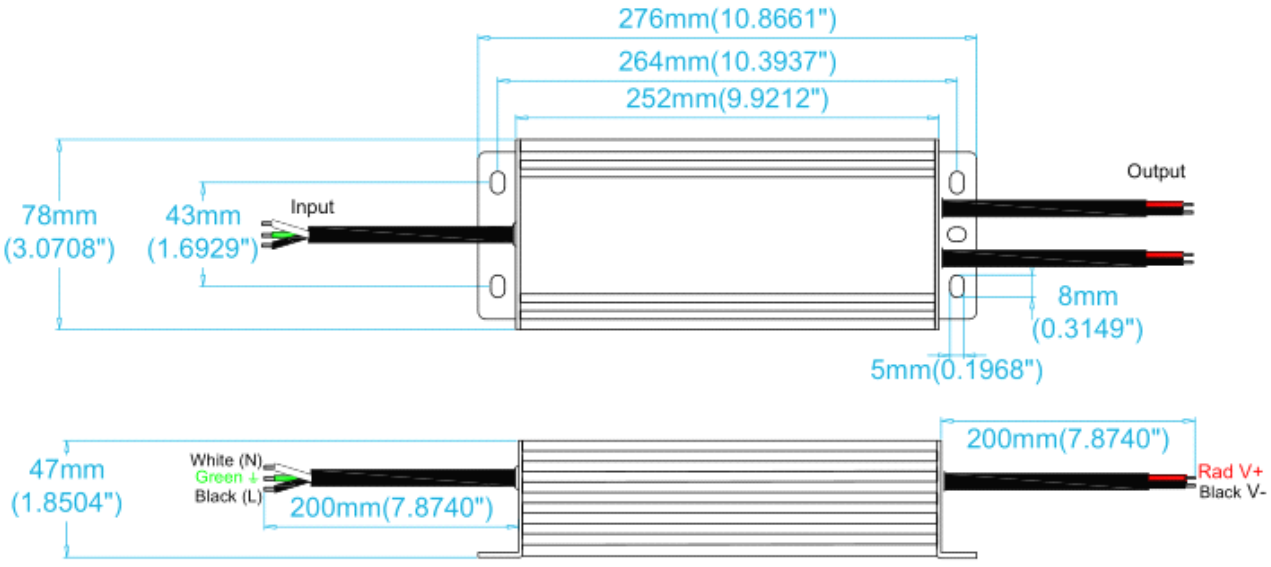


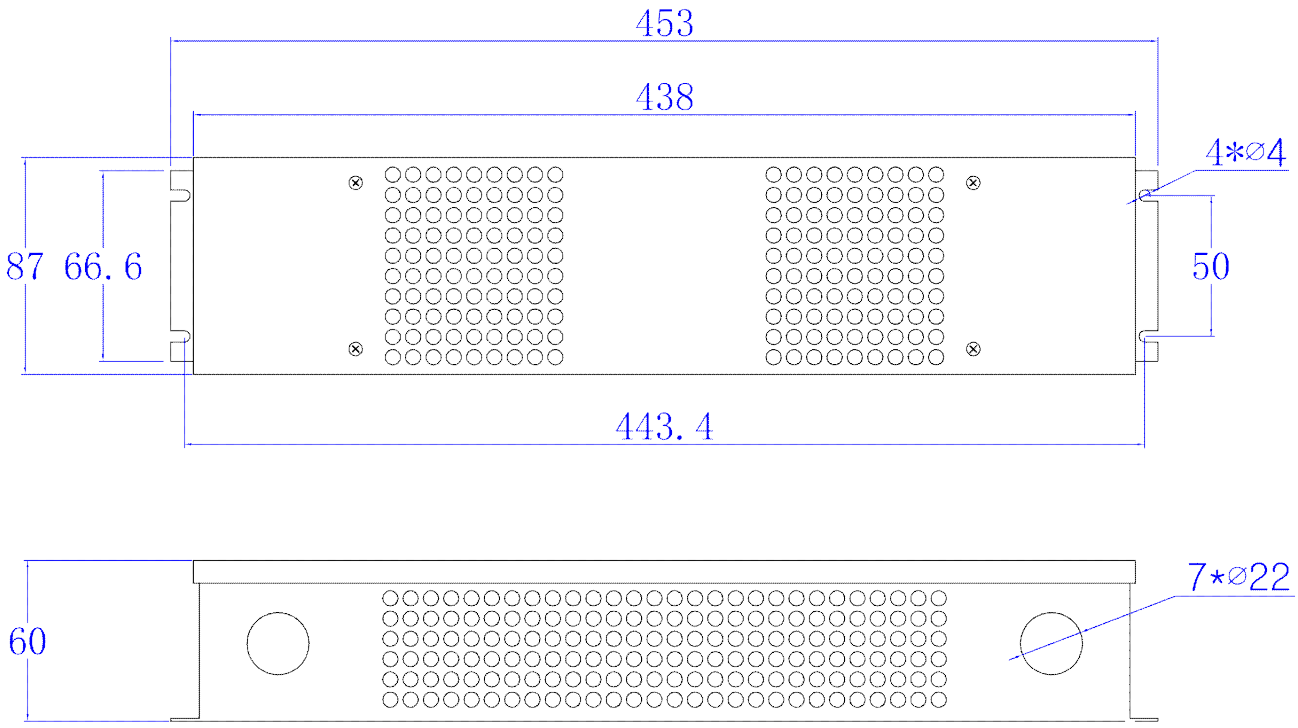
※To extend their life, please refer to the Derating Curve and derate according to the temperature.

■ Mechanical Specification

Unite: mm

Tolerance:P 0.5-2mm





J30 Junction box

※ Input Rubber wire 3*18AWG Black and White to be connected to AC L and N ,Green wire go ground,

※Output Rubber wire, 2*14AWG Red to LED Positive side (+) , Black to LED Negative side (-). (noted that 12V 300W is with 2 group of 2*14AWG output wires to separate the output current.)

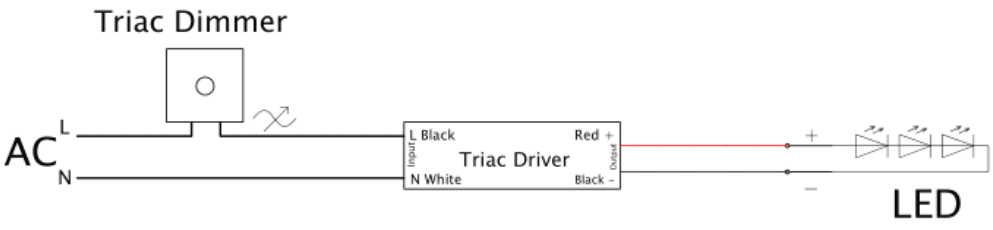
■Dimming Operation

※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



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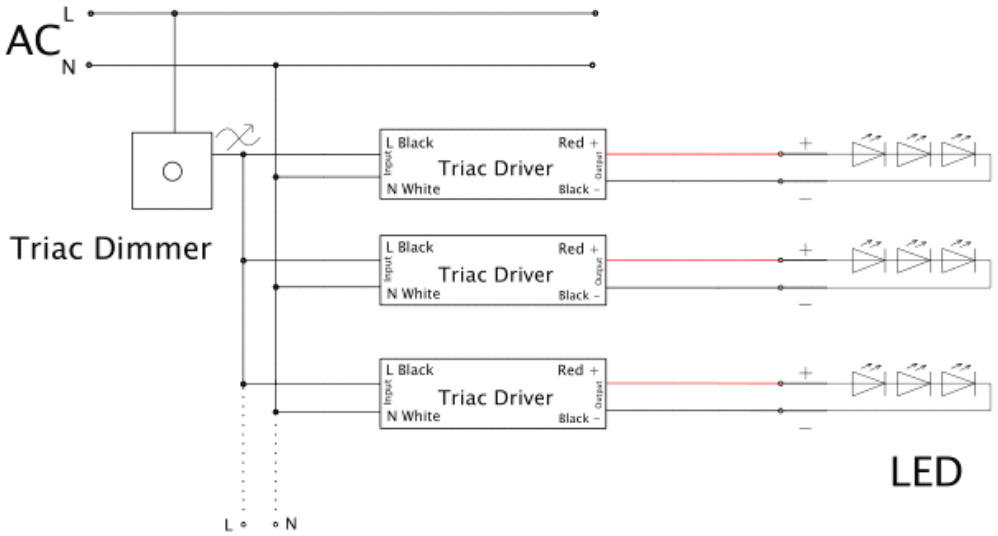

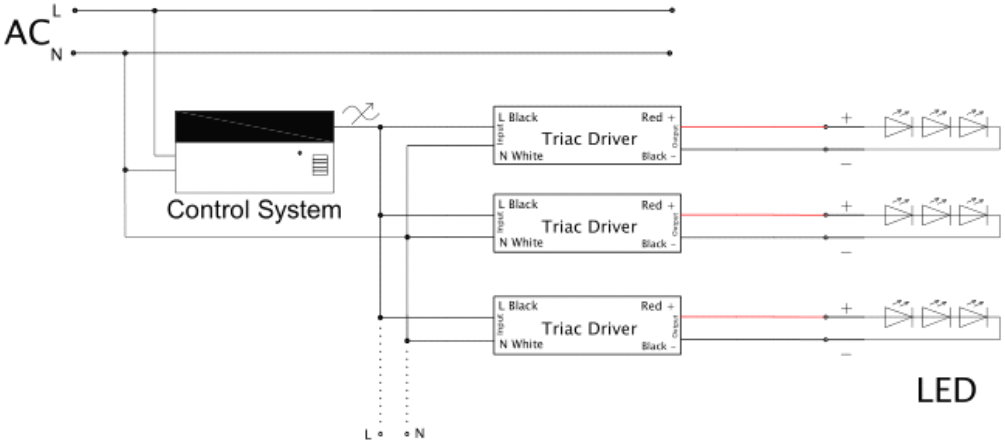

■ Instruction:

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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