



## PYJD-TDW Series 100W

### TRIAC Dimmable LED Driver - Constant Voltage Output - PYJD-TDW Series 100W



#### Features

Output:	Constant Voltage
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 86%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	Full Iron protection housing, for dry, damp & wet locations.
Dimming function:	Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers.
Dimming range:	0.1-100%
Application:	Suitable for the application of LED lighting
Warranty:	2 years warranty
Others:	PWM output, High power factor PF>0.9, flicker-free dimming



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### Specification

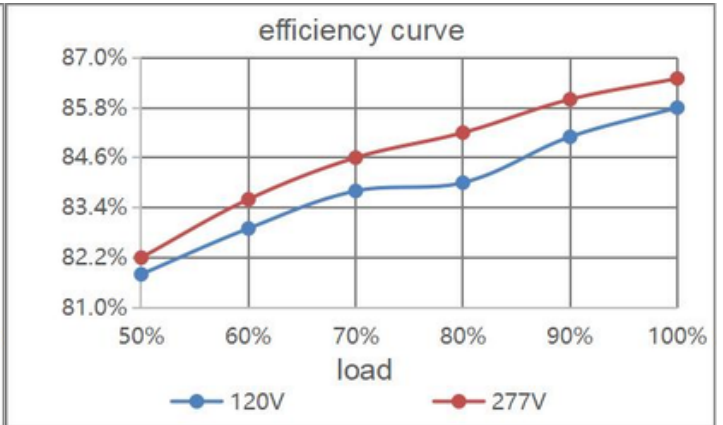
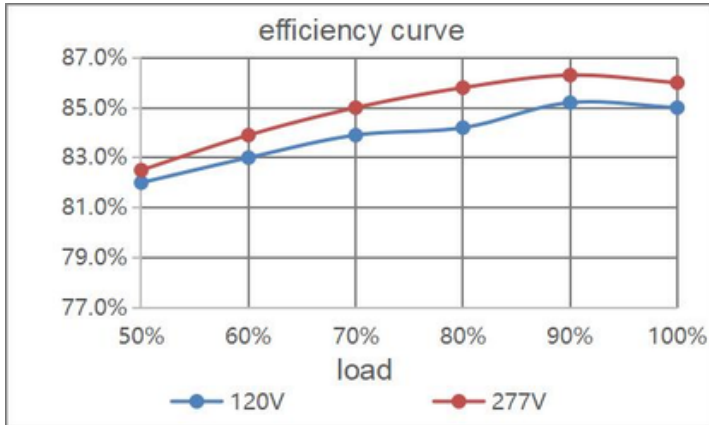
Model		PYJD-12100-TDW	PYJD-24100-TDW
Certificate		UL / cUL / FCC / Class P / TYPE HL / SELV / RoHS / Reach	
Output	DCVoltage	12V	24V
	VoltageTolerance	±0.5V	
	VoltageRegulation	±0.5%	
	Ratedcurrent	8.33A	4.16A
	Ratedpower	100W	
	LoadRegulation	±2%	±1%
Input	VoltageRange	100-277VAC	
	FrequencyRange	50/60Hz	
	PowerFactor(Typ.)@fullload	>0.9	
	THD(Typ.)@fullload	<20%	
	Efficiency(Typ.)@fullload	80%@120VAC 83%@277VAC	83%@120VAC 86%@277VAC
	ACCcurrent(Max.)	1.5A	
	InrushCurrent(Typ.)	20A,1.6ms@50%120VAC 25A,1.2ms@50%277VAC	
	Leakagecurrent	<0.5mA	
Protection	ShortCircuit	Shutdown/pvoltage,re-powerontorecoverafterfaultconditionisremoved	
	OverLoad	≤120%constantcurrentlimiting,recoversautomaticallyafterfaultconditionisremoved	
	Overtemperature	Shellsurfacetemp.100°C±10°Cshutdown/pvoltage,automaticallyrecoveraftercooling	
Environment	WorkingTEMP.	-40~+60°C(seebelowderatingcurve)	
	WorkingHumidity	20-95%RH non-condensing	
	StorageTEM.,Humidity	-40-+80°C,10-95%RHnon-condensing	
	TEMP.coefficient	±0.03%/°C(0-50°C)	
	Vibration	10~500Hz,5G12min./1cycle,periodfor72min.eachalongX,Y,Zaxes	
Safety & EMC	Safetystandards	UL8750; CAN/CSA-C22.2No.250.13	
	Withstandvoltage	I/P-O/P:1.88KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
	Isolationresistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
	EMCImmunity	FCC/ICESdonotrequestthistest	
	EMCEmission	FCCPart15,SubpartB; ANSIC63.4-2014	
Others	NetWeight	1.28Kg	
	Dimension	220*95.4*42.7mm(L*W*H)	
	Packing	298*265*220mm 10pcs/CTN 13.90KG/CTN	
Notes	<ol style="list-style-type: none"> <li>AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25°Cofambient temperature.</li> <li>Tolerance:includessetuptoleranceandloadregulation.</li> </ol>		



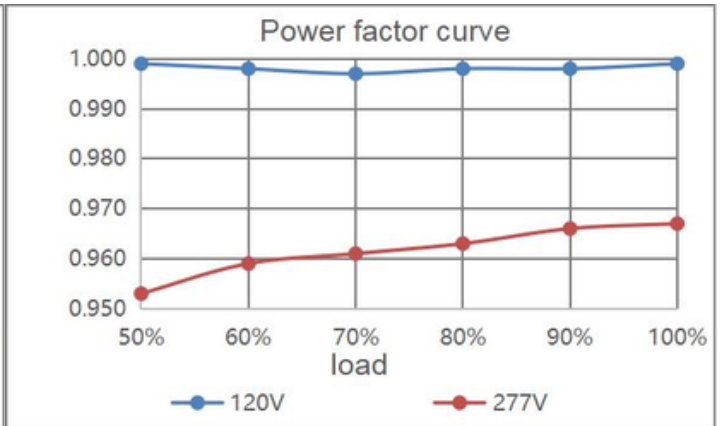
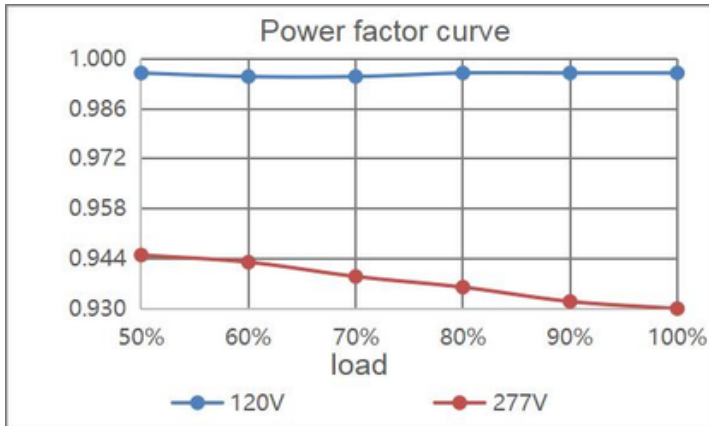


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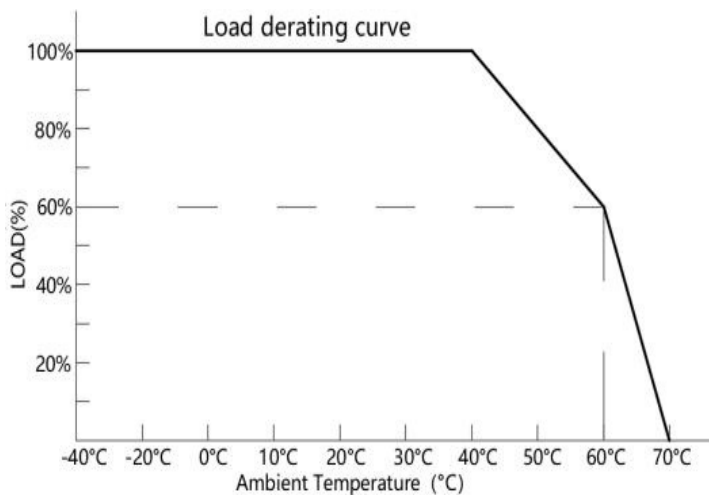
### Efficiency Curve (efficiency vs output load)



### Power Factor Curve



### Derating Curve (output load vs TEMP.)

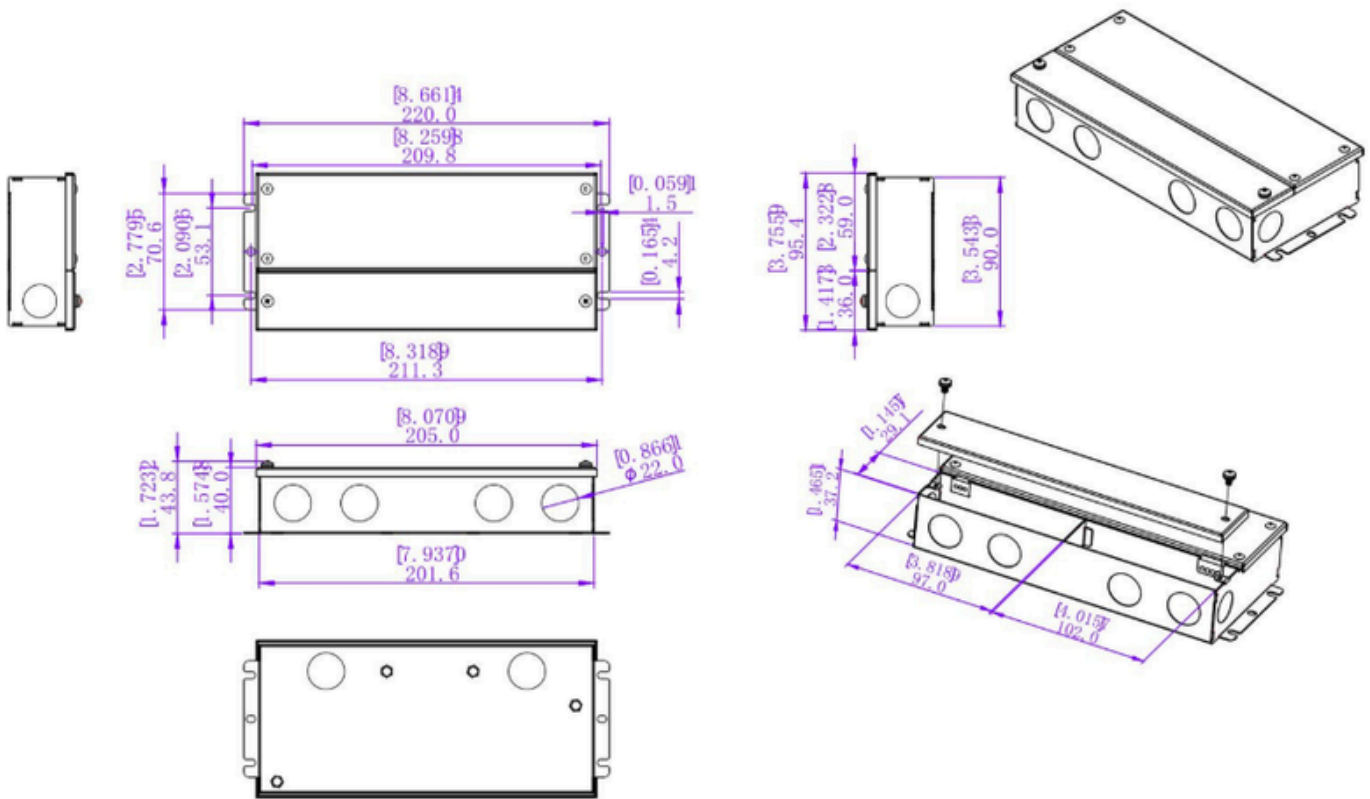


1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise.

Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.



### Mechanical Specification



### 12V&24V Version

American wire gauge	
JM88-A1	
Input wire	Black(L) White(N) Green(G) (3*18AWG)
Output wire	Red(V+) Black(V-) (2*16AWG)

### Warm tips:

- Recommended Max. Carrying Current (A) = wire diameter(mm<sup>2</sup>) x 10A/mm<sup>2</sup>  
For example: 1mm<sup>2</sup> output cable, Recommended Max. Carrying Current (A) = 1mm<sup>2</sup> x 10A/mm<sup>2</sup>=10A

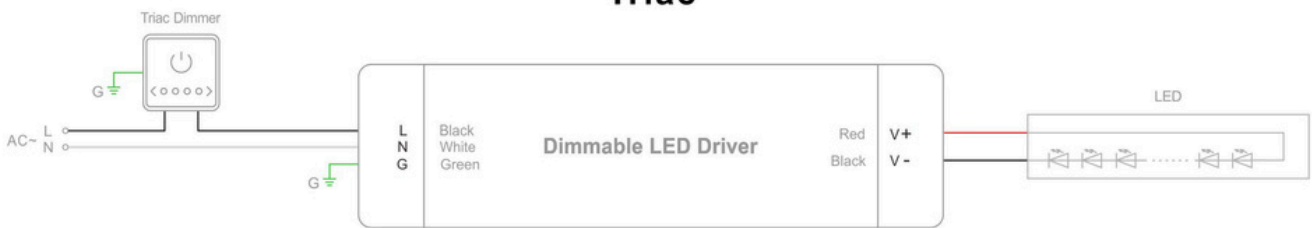


## TRIAC Dimmable LED Driver - Constant Voltage Output PYJD-TDW Series 100W

### 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 Forward phase, MLV and Reverse phase, ELV, 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.

