



PYJD-TDW Series 60W

TRIAC Dimmable LED Driver - Constant Voltage Output - PYJD-TD Series 60W



Class 2 Class P TYPE HL SELV RoHS



Features

Output:	Constant Voltage
Range:	100-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 83%
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:	5 years warranty
Others:	PWM output, High power factor PF>0.9, flicker-free dimming

**TRIAC Dimmable LED Driver - Constant Voltage Output - PYJD-TD Series 60W****Specification**

Model		PYJD-12060-TDW		PYJD-24060-TDW	
Certificate		UL / cUL / FCC / Class 2 / Class P / TYPE HL / SELV / RoHS / Reach			
Output	DC Voltage	12V		24V	
	Voltage Tolerance	±0.5V			
	Voltage Regulation	±0.5%			
	Rated current	5A		2.5A	
	Rated power	60W			
	Load Regulation	±2%		±1%	
Input	Voltage Range	100-277VAC			
	Frequency Range	50 / 60Hz			
	Power Factor (Typ.)@ full load	>0.9			
	THD(Typ.) @ full load	<20%			
	Efficiency(Typ.) @ full load	83%@120VAC 277VAC			
	AC Current (Max.)	0.9A			
	Inrush Current (Typ.)	14A, 780us@50% 120VAC 277VAC			
	Leakage current	<0.5mA			
Protection	Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition is removed			
	Over Load	≤120% shut down o/p voltage,recovers automatically after fault condition is removed			
	Over temperature	Shell surface temp.100°C±10°C shut down o/p voltage, automatically recover after cooling			
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	UL8750; CAN/CSA-C22.2 No.250.13			
	Withstand voltage	I/P-O/P: 1.88KVAC I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC			
	Isolation resistance	I/P-O/P: 100MΩ / 500VDC / 25°C / 70% RH			
	EMC Immunity	FCC/ICES do not request this test			
	EMC Emission	FCC Part 15, Subpart B; ANSI C63.4-2014			
Others	Net Weight	1.04Kg			
	Dimension	188*95.4*43.8mm (L*W*H)			
	Packing	415*265*270mm 20pcs/CTN 22.6KG/CTN			
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°Cof ambient temperature. 2. Tolerance: includes set up tolerance and load regulation .				



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MCB recommendation

When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:

MCB Type	Level	The number of LED Driver
C type	10A	11
	13A	15
	16A	18
	20A	23
	25A	29

When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:

MCB Type	Level	The number of LED Driver
C type	10A	25
	13A	33
	16A	41
	20A	51
	25A	64

Note:

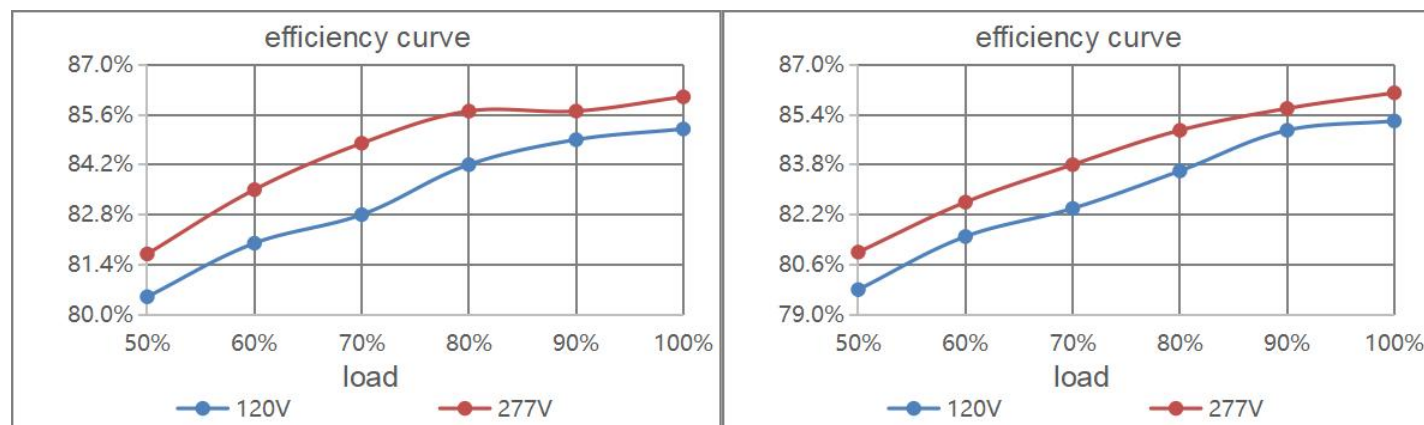
1. The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is 50 °C
2. The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.



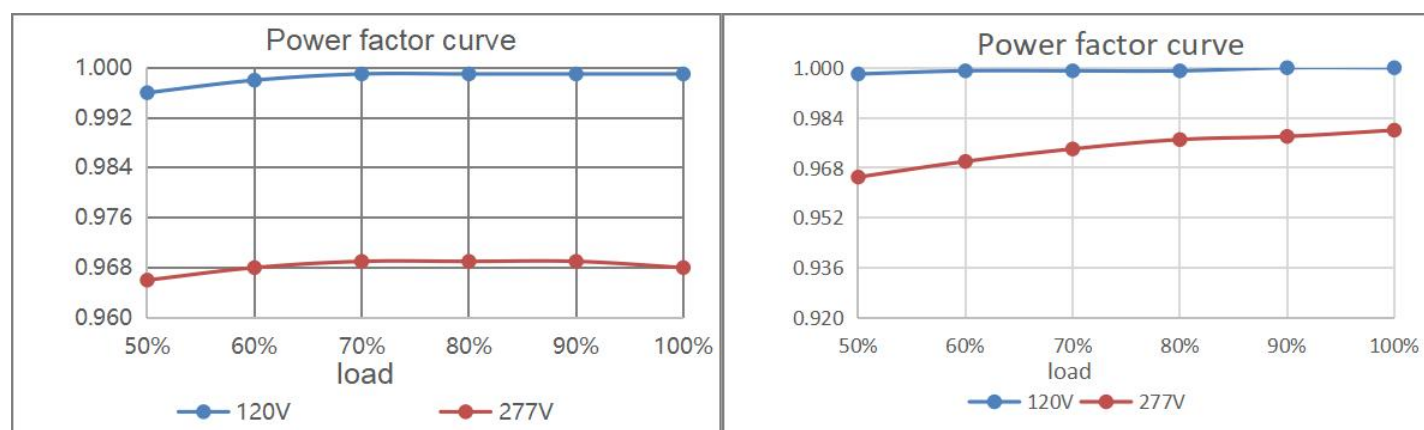


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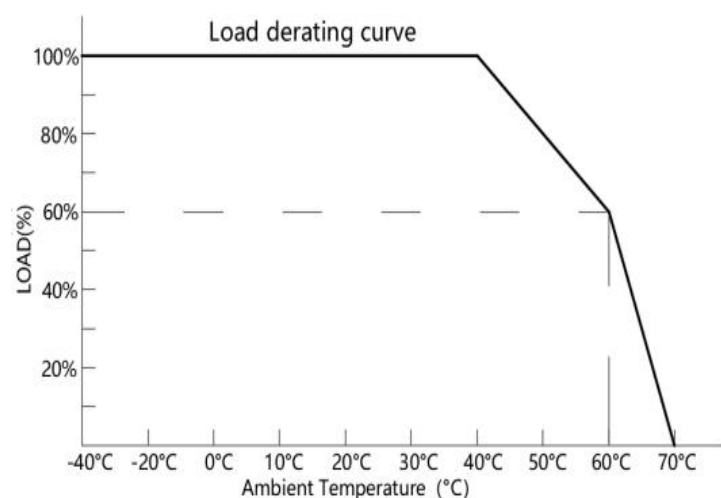
Efficiency Curve (efficiency vs output load)



Power Factor Curve



Derating Curve (output load vs TEMP.)

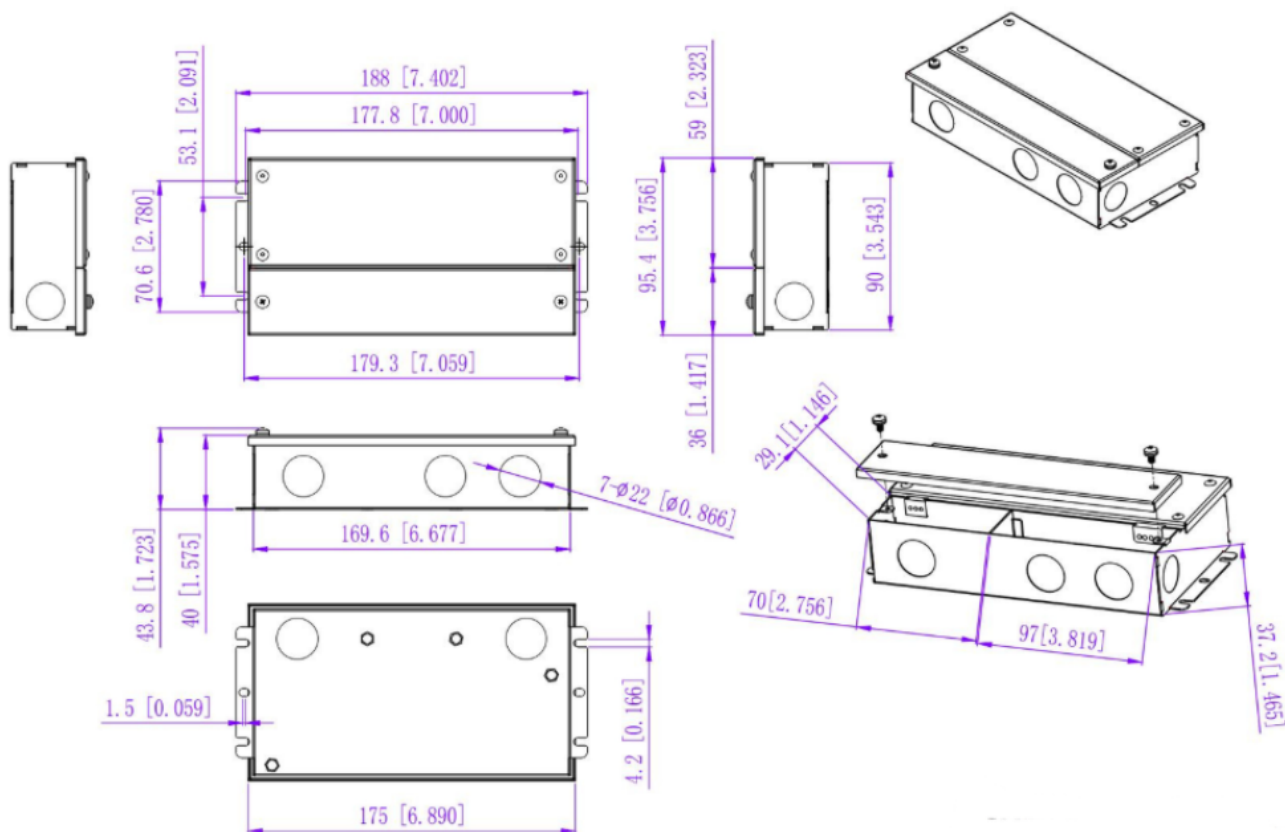


1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid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



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Mechanical Specification



12V&24V Version

American wire gauge	
JM85-H-A1	
Input wire	Black(L) White(N) Green(G) (3*18AWG)
Output wire	Red(V+) Black(V-) (2*18AWG)

Warm tips:

- Recommended Max. Carrying Current (A) = wire diameter(mm²) x 10A/mm²
For example: 1mm² output cable, Recommended Max. Carrying Current (A) = 1mm² x 10A/mm² = 10



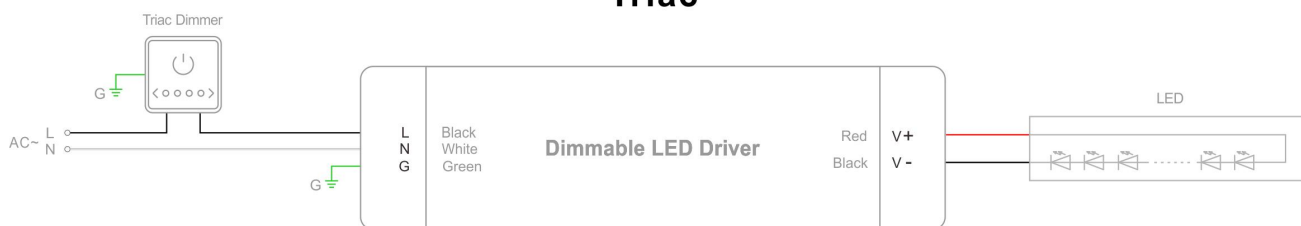
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Dimming Operation and Connecting Diagram

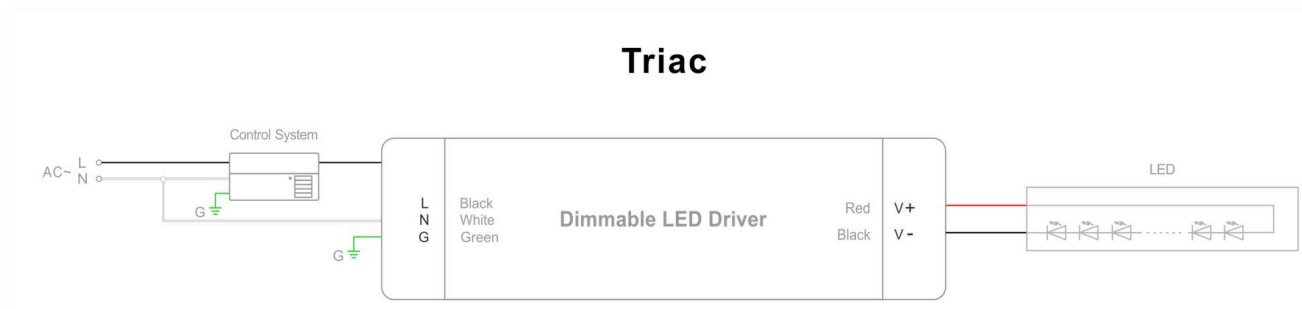
TRIAC/Phase cut dimming

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 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.