



PYSD - DWS Series 96W



Class P TYPE HL SELV CE RoHS



LED Slim Constant Voltage Dimmable Driver 96W 24V-12V



Features

Output	Constant Voltage
Range	110-277VAC
PFC design	Built-in active PFC function
Efficiency	Up to 90%
Protections	Short circuit/ over load/ over temperature
Heat dissipation	Cooling by free air convection
Watereproof performance	Full protection plastic housing, for dry, damp location
Dimming function	Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming range	0-100%
Application	Suitable for LED lighting and moving sign applications
Warranty	3 years warranty



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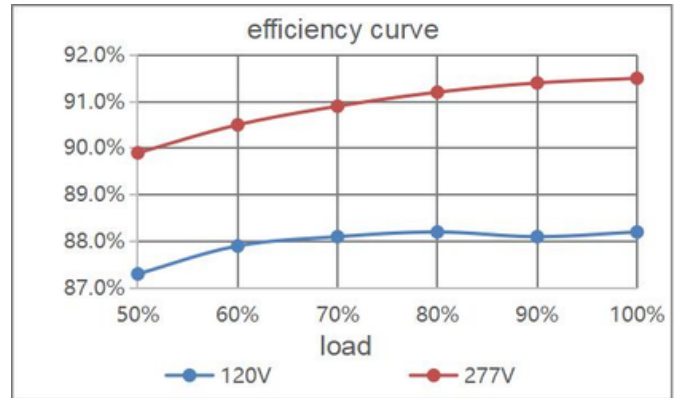
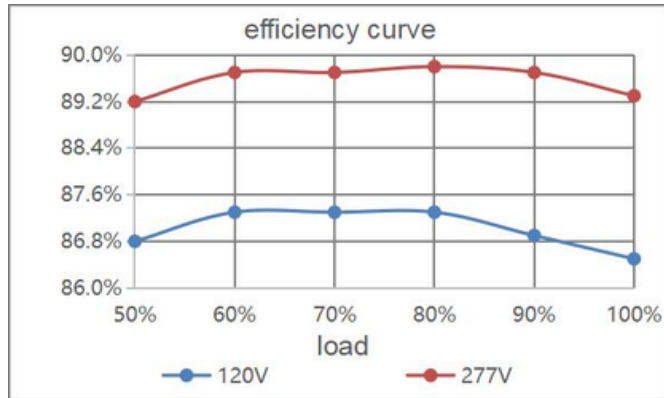
Specification

Model		PYSD - 2496-DWS		
Certificate		UL / cUL / FCC / CE / ROHS / Reach		
Output	DC Voltage	24V		
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	4A		
	Rated power	96W		
	Load Regulation	±1%		
Input	Voltage Range	110-277VAC		
	Frequency Range	47 - 63Hz		
	Power Factor @ full load	0.995@120VAC	0.987@277VAC	
	THD(Typ.)@fullload	<10%@120VAC		
	Efficiency @ full load	85%@120VAC	88%@277VAC	
	ACCurrent(Max.)	1.3A		
	InrushCurrent(Typ.)	11A ,1.04ms@50%120VAC 27A ,960us@50%277VAC		
	Leakagecurrent	<0.5mA		
Protection	ShortCircuit	Shut down o/p voltage, recovers automatically after fault condition is removed		
	OverLoad	≤120% Hiccup mode, 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	WorkingTEMP.	-40~+60°C(seebelowderatingcurve)		
	WorkingHumidity	20-90%RH non-condensing		
	StorageTEM.,Humidity	-40~+80°C,10-95%RHnon-condensing		
	TEMP.coefficient	±0.03%/°C(0-50°C)		
	Vibration	10~500Hz,2G10min./ 1cycle,period for 60min.eachalong X,Y, Z axes		
Safety & EMC	Safetystandards	UL8750 CAN/CSA-C22.2 No.250.13(US)		
	Withstandvoltage	I/P-O/P:1.8KVAC(US)		
	Isolationresistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH		
	EMCEmission	FCC47CFRPart15,Subpart B(US)		
Others	NetWeight	0.31Kg		
	Dimension	329.7*30*22mm(L*W*H)		
	Packing	350*330*145mm 50pcs /CTN 16.780KG/CTN		
Notes	1. AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25°Cofambient temperature. 2. Tolerance:includesetuptoleranceandloadregulation.			

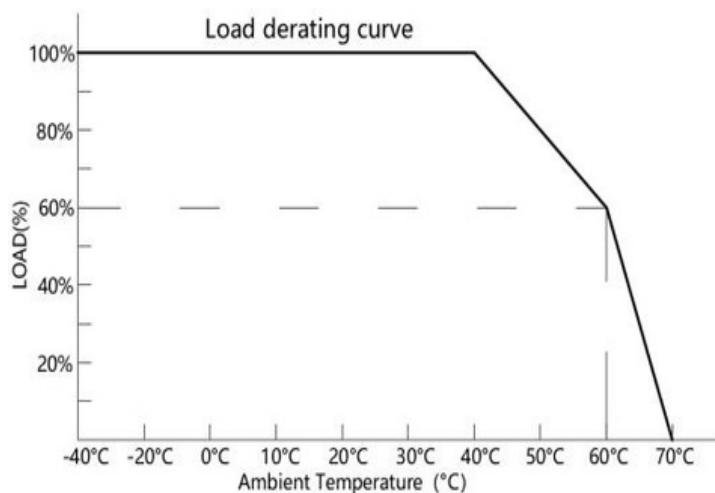


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Efficiency Curve (efficiency vs output load)

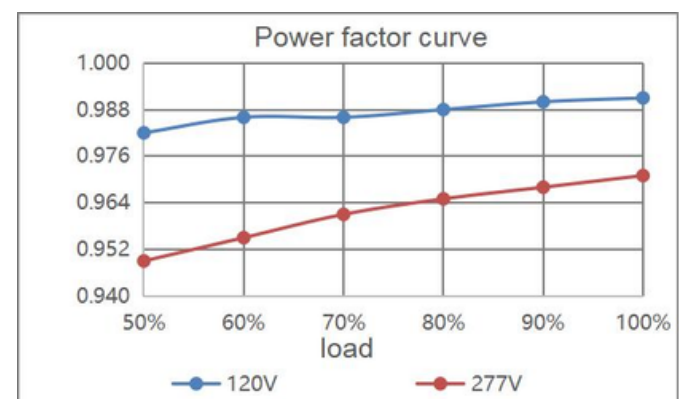
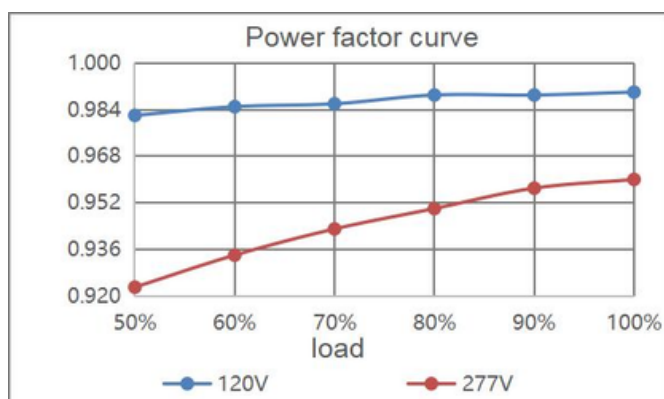


Derating Curve (output load vs TEMP.)



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.

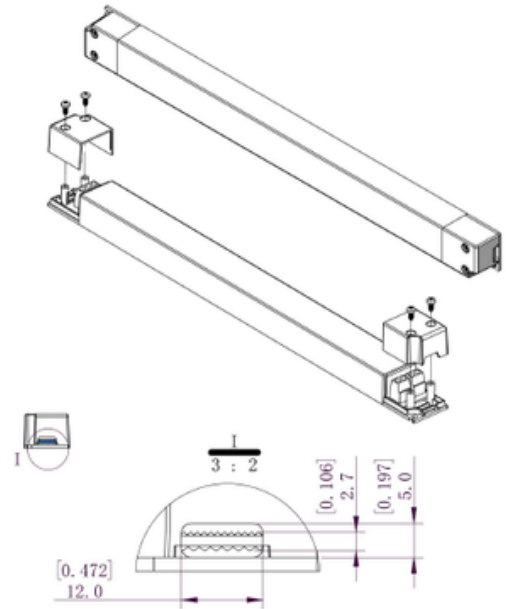
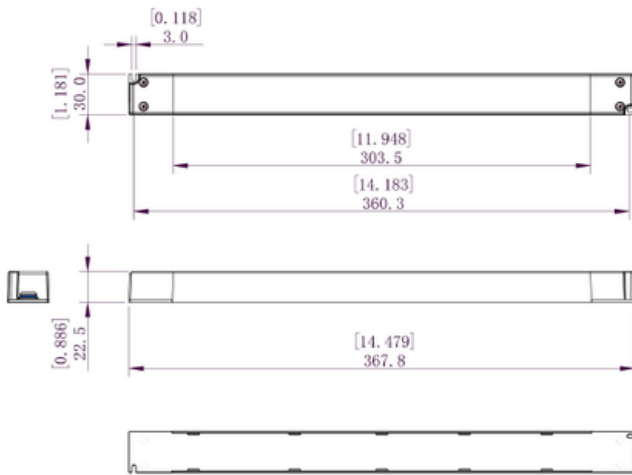
Power factor curve





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Mechanical Specification



TOLERANCE	20~ mm	±2.0mm	ANGLE
	10~20mm	±1.0mm	
	5~10mm	±0.8mm	
	0~5 mm	±0.5mm	±3°

12V&24V Version

1. Connect Live and Neutral wire to PRI (L) and (N) of power supply terminals.
2. Connect LED light to SEC Positive (LED+) and Negative (LED-) of power supply terminals.
3. Connect the dimming signal wire (+) and (-) to DIM (+) and DIM(-) of power supply terminals.
4. Please DO NOT connect "DIM-" to "LED-", "DIM+" to "LED+", or other incorrect connection.
5. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

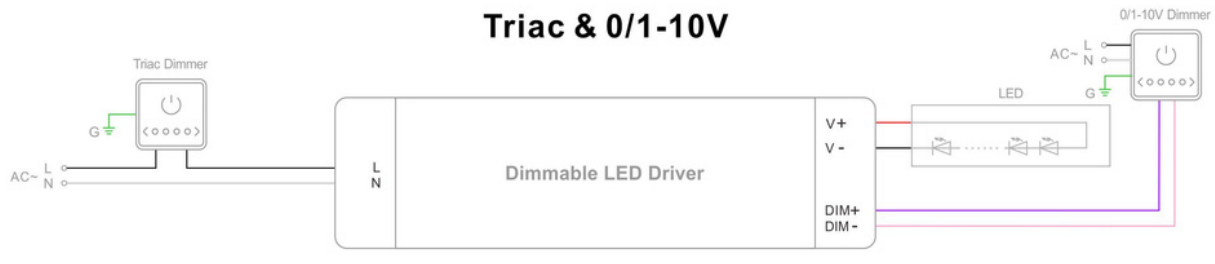
1. Suggested wire diameter: Input 0.75-2mm²; Output 0.5-2mm².
2. Any other requests for, we can customized.



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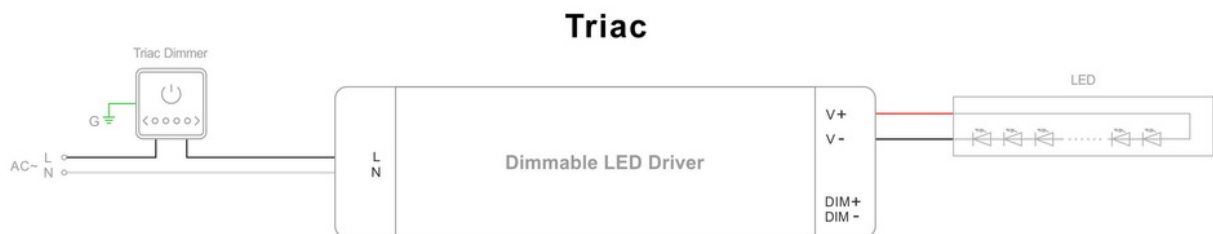
Dimming Operation and Connecting Diagram

- Using two ways of dimming at the same time, you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming;

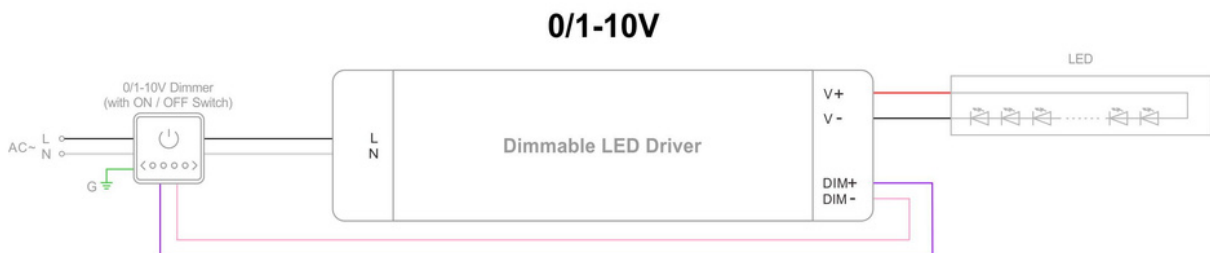


- Using one dimming ---TRIAC/Phase cut dimming

- 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.
- Working with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers or light system.
- Min. loading is about 10%.
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

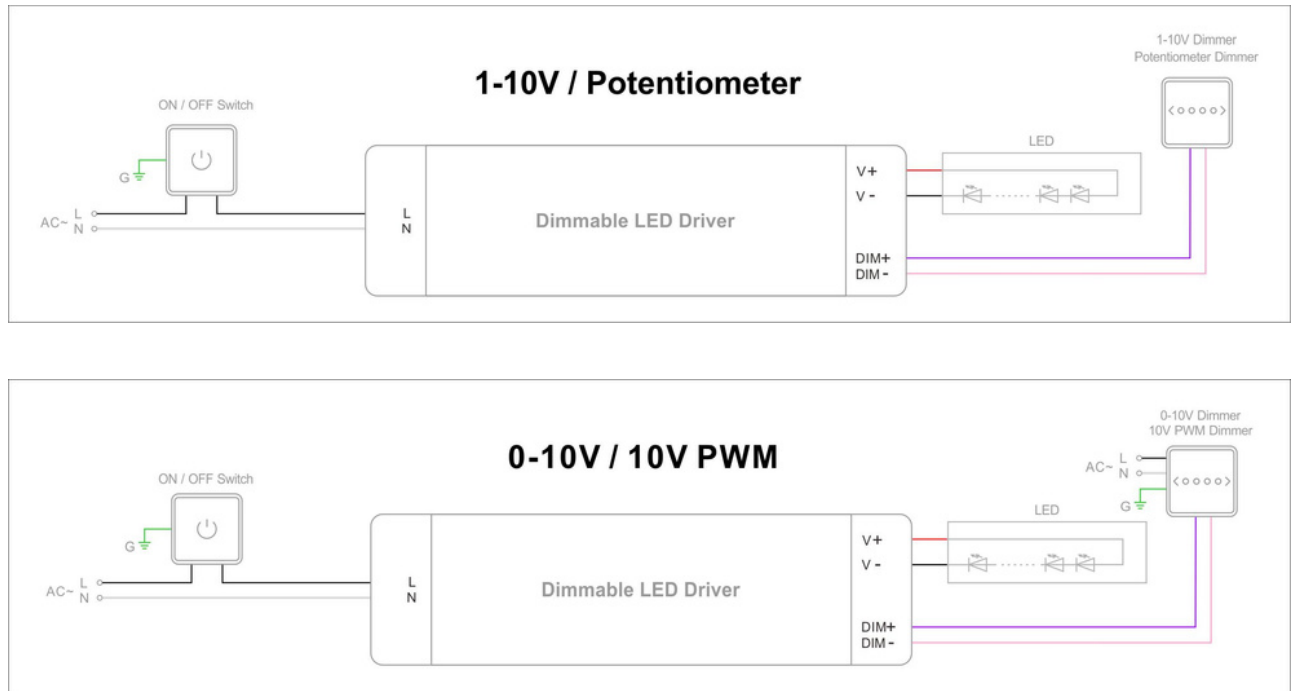


- Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming





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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.