



## PYSD - DWS Series 100W



Class P TYPE HL SELV CE RoHS



### LED Slim Constant Voltage Dimmable Driver 100W 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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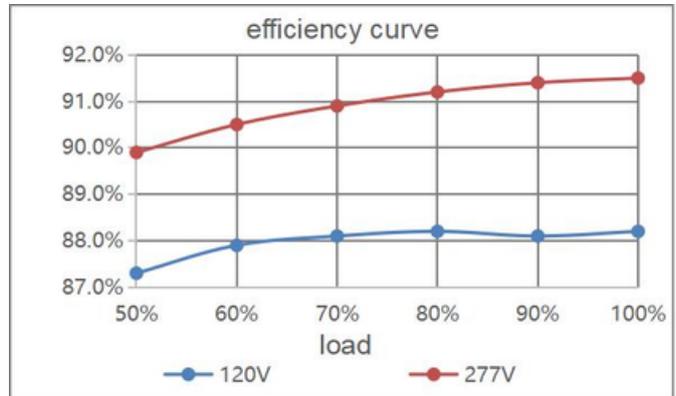
### Specification

Model		PYSD- 12100-DWS	PYSD - 24100-DWS
Certificate		UL / cUL / FCC / CE / ROHS / Reach	
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Rated current	8.33A	4.16A
	Rated power	100W	
	Load Regulation	±2%	±1%
Input	Voltage Range	110-277VAC	
	Frequency Range	47 - 63Hz	
	Power Factor @ full load	0.995@120VAC 0.995@277VAC	0.995@120VAC 0.995@277VAC
	THD(Typ.)@fullload	<10%@120VAC	<15%@277VAC
	Efficiency @ full load	82%@120VAC 86%@277VAC	85%@120VAC 88%@277VAC
	ACCcurrent(Max.)	1.3A	
	InrushCurrent(Typ.)	11A ,1.04ms@120VAC 27A ,960us@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,periodfor60min.eachalongX,Y,Zaxes	
Safety & EMC	Safetystandards	UL8750 CAN/CSA-C22.2No.250.13(US)	
	Withstandvoltage	I/P-O/P:1.8KVAC(US)	
	Isolationresistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
	EMCEmission	FCC 47 CFRPart15,SubpartB(US)	
Others	NetWeight	0.32Kg	
	Dimension	329.7*30*22mm(L*W*H)	
	Packing	350*330*145mm 50pcs /CTN 17.5KG/CTN	
Notes	1. AllparametersNOTspeciallymentionedaremeasuredat120VACinput,ratedloadand25°Cofambient temperature. 2. Tolerance:includesetuptoleranceandloadregulation.		

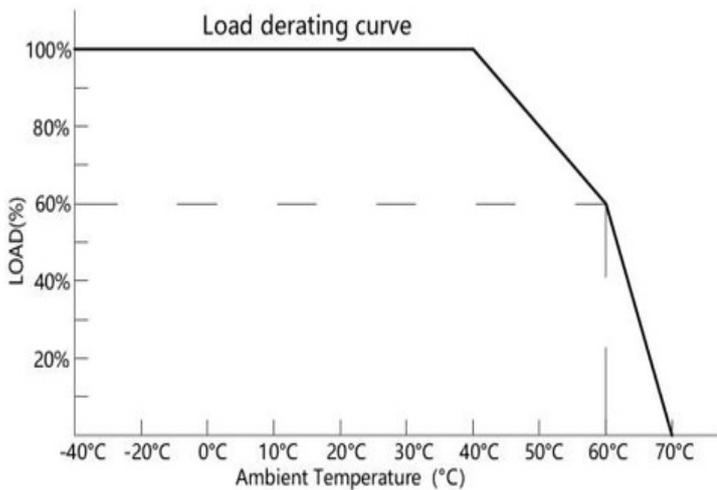


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### Efficiency Curve (efficiency vs output load)

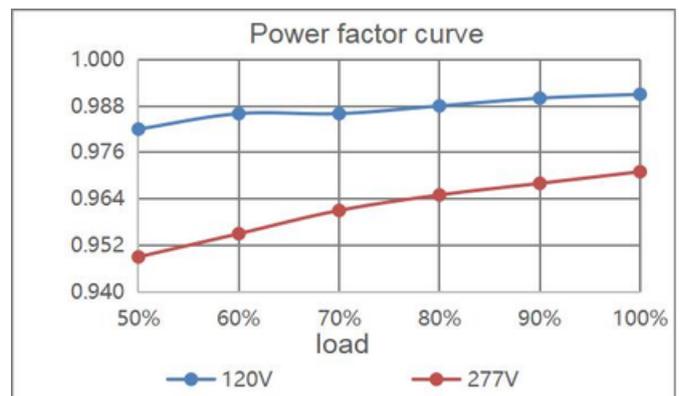
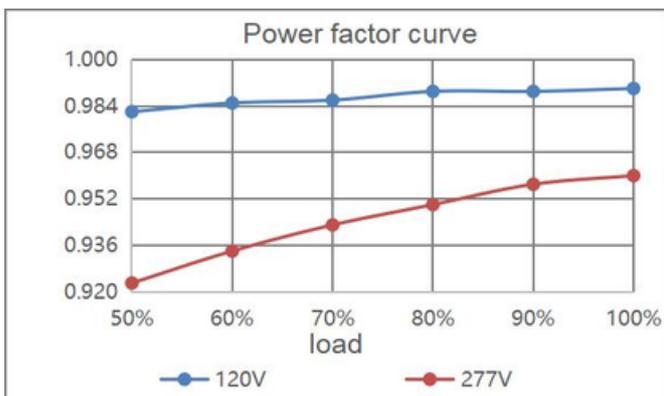


### Derating Curve (output load vs TEMP.)



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



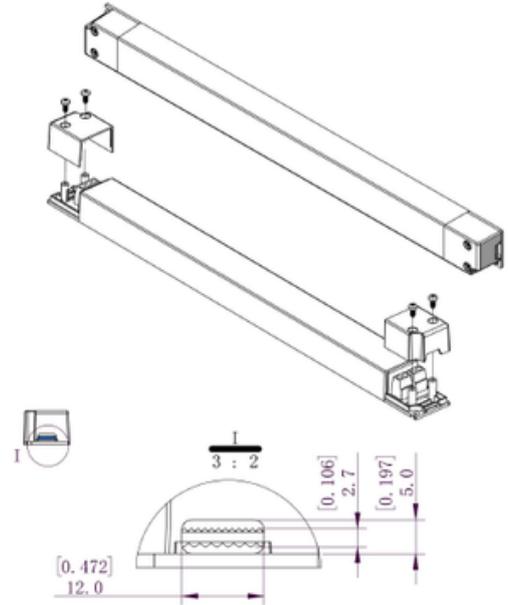
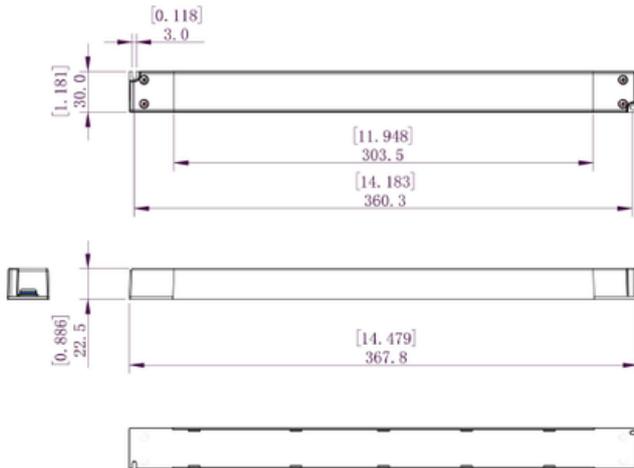
Due to continuous improvements, the information herein may be changed without notice

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### Mechanical Specification



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

### 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 your connect these correctly otherwise your product will not function correctly and could be damaged.

#### Warm tips:

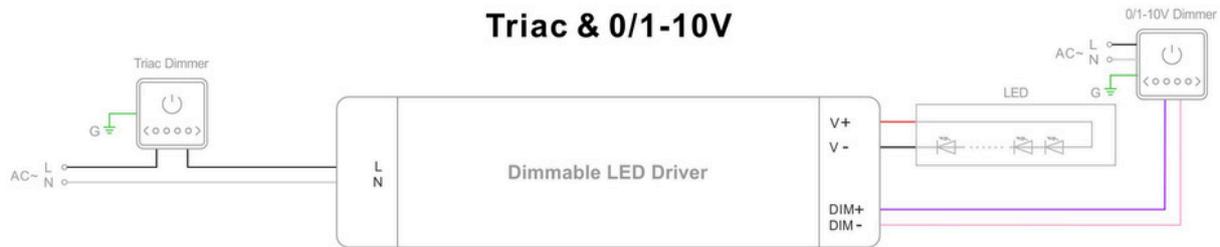
1. Suggested wire diameter: Input 0.75-2mm<sup>2</sup>; Output: 0.5-2mm<sup>2</sup>.
2. Any other requests for, we can customized.



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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.

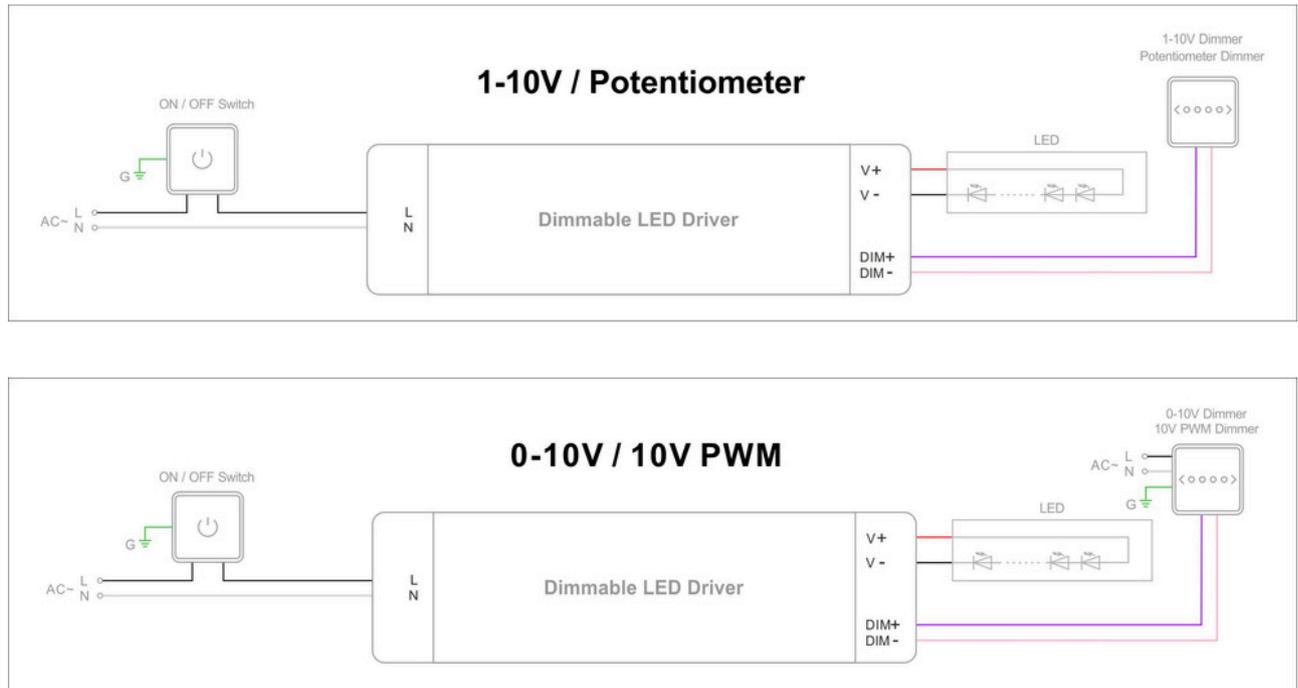


- Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming





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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.