

## **PYSD - Series 96W**

24VDC - 96W



# FC Class P Class 2 TYPE HL SELV ( RoHS Reach





#### **Features**

Output: Constant Voltage 100-277VAC Range:

Built-in active PFC function PFC design:

Up to 88% Efficiency:

Short circuit/ over load/ over temperature Protections:

Cooling by free air convection Heat dissipation:

Full protection plastic housing, for dry, damp location Waterproof performance:

Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers Dimming function:

0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1

0-100% Dimming range:

Suitable for LED lighting and moving sign applications Application:

3 years warranty Warranty:

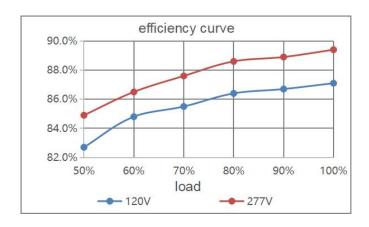


# Specification

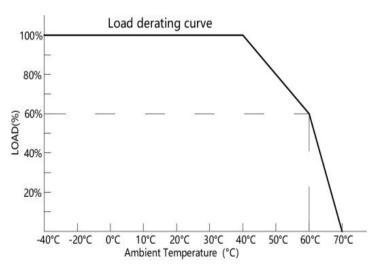
Model		PYSD-24096-DWS
Certificate		UL / cUL / FCC / Class 2 / CE / ROHS / Reach
Output	DC Voltage	24V
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Rated current	4A
	Rated power	96W
	Load Regulation	±1%
Input	Voltage Range	100-277VAC
	Frequency Range	47 - 63Hz
	Power Factor @ full load	0.995@120VAC 0.987@277VAC
	THD(Typ.) @ full load	<10%@120VAC <15%@277VAC
	Efficiency @ full load	85%@120VAC 88%@277VAC
	AC Current (Max.)	1.3A
	Inrush Current (Typ.)	11A ,1.04ms@50%120VAC 27A ,960us@50%277VAC
	Leakage current	<0.5mA
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault condition is removed
	Over Load	≤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
	Over temperature	cooling
Environment	Working TEMP.	-40~+60℃ (see below derating curve)
	Working Humidity	20 - 90%RH non-condensing
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing
	TEMP.coefficient	±0.03%/℃(0 - 50℃)
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes
Safety & EMC	Safety standards	UL8750 CAN/CSA-C22.2 No.250.13(US)
	Withstand voltage	I/P-O/P:1.8KVAC(US)
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70% RH
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B(US)
Others	Net Weight	0.31Kg
	Dimension	329.7*30*22mm(L*W*H)
	Packing	350*330*145mm 50pcs /CTN 16.780KG/CTN
Notes	All parameters NOT sp	pecially mentioned are measured at 120VAC input, rated load and 25℃of ambient
	temperature.	
	2. Tolerance: includes se	t up tolerance and load regulation .



### **Efficiency Curve (efficiency vs output load)**



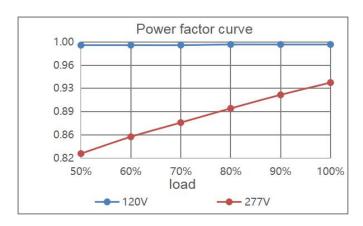
## **Derating Curve (output load vs TEMP.)**



- 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.

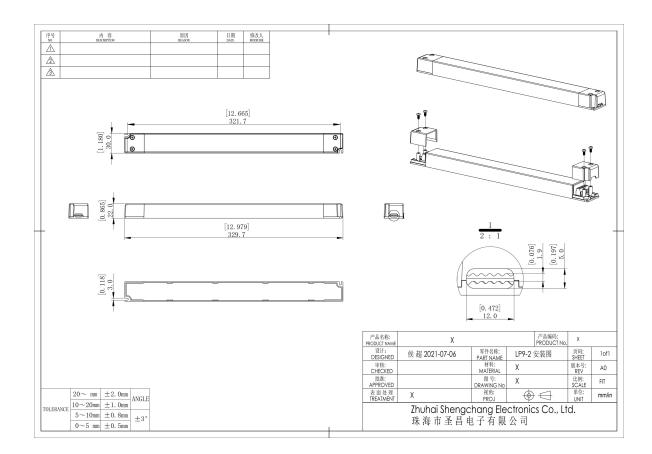
  Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

### **Power factor curve**





#### **Mechanical Specification**



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.

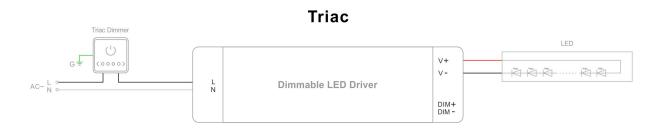


#### **Dimming Operation and Connecting Diagram**

• **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
- 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 or light system.
- 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.

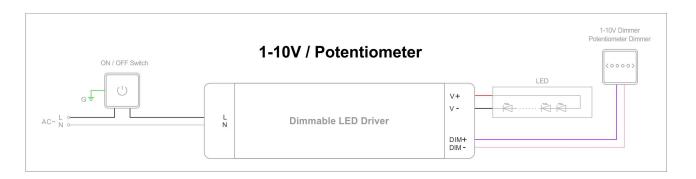


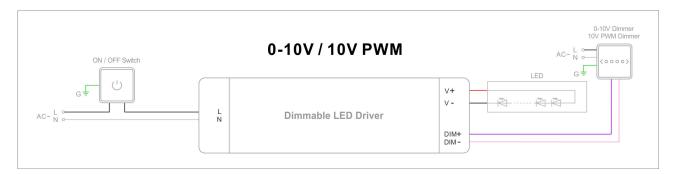
Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming





#### Triac/0-10V/1-10V/Potentiometer/10V PWM 5 in 1 Dimmable LED driver 96W





#### 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 questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn/en