

# 1-Channel Class 2 TRIAC Dimmable LED Driver with Enclosure



## FEATURES

- Output constant voltage, Class 2, TRIAC Dimmable
- UL, cUL, FCC, Class 2, CE, Class P, SELV, RoHS, Reach
- Range: 100-277VAC
- High power factor up to 88%
- Short circuit, over loading, and over temperature protection
- Cooling by free air convection
- Full protection aluminum housing for dry and damp locations



## SPECIFICATIONS

<b>Model</b>	<b>CL-24096-TDWJV2</b>			
<b>Certificates</b>	UL / cUL / FCC / Class 2 / CE / Class P / SELV / RoHS / Reach			
<b>Output</b>	DC Voltage	24V		
	Rated Current	4A		
	Rated Power	96W		
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Load Regulation	±1%		
<b>Input</b>	Voltage Range	100-277VAC		
	Frequency Range	47-63Hz		
	Power Factor (Typ.) @ full load	0.98@120VAC	0.96@277VAC	
	THD (Typ.) @ full load	<20%		
	Efficiency (Typ.) @ full load	83%@120VAC	83%@277VAC	
	AC Current (Max.)	1.3A@100VAC		
	Inrush Current (Typ.)	20A, 1.6ms@50%120VAC	20A, 1.6ms@50%277VAC	
Leakage Current	<0.5mA			
<b>Protection</b>	Short Circuit	Shut down o/p voltage, re-power on to recover after fault condition is removed.		
	Over Loading	≤120% constant current limiting, auto-recovery		
	Over Temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.		
<b>Environment</b>	Working Temperature	-40~+60°C (see derating curve)		
	Working Humidity	20~95%RH, non-condensing		
	Storage Temperature Humidity	-40~+80°C, 10~95%RH non-condensing		
	Temperature Coefficient	±0.03%/°C (0~50°C)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes		
<b>Safety &amp; EMC</b>	Safety Standards	UL8750 UL1310 CAN/CSA-C22.2 No.250.13 (US)		
	Withstand Voltage	I/P-O/P:1.8KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)		
	Isolation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH		
	EMC Emission	FCC 47 CFR Part 15, Subpart B (US)		
<b>Others</b>	Net Weight	1.72kg		
	Size	230*70*43mm (L*W*H)		
	Packing	415*360*190mm 10pcs/CTN 19.3KG/CT		
<b>Notes</b>	1. All parameters if NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. 2. To extend the driver's using life, please reduce the loading at lower input voltage.			

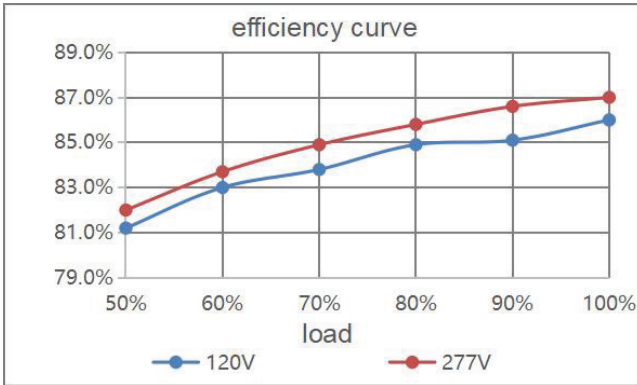
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## Specifications & Data

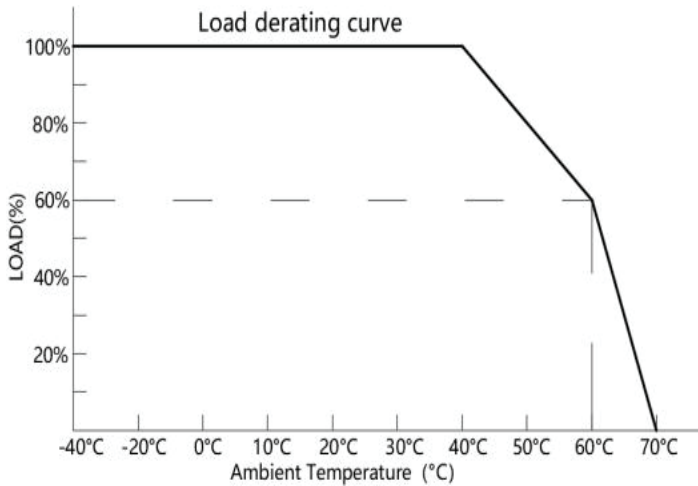
Project/Job	Notes
Date	
Comments	
Prepared by	



### EFFICIENCY CURVE (EFFICIENCY VS OUTPUT LOAD)

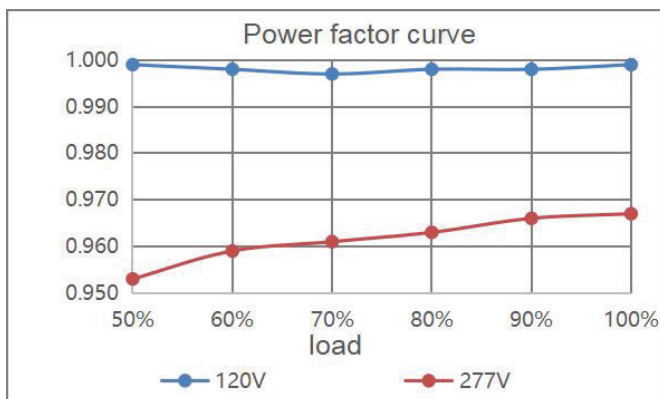


### DERATING CURVE (OUTPUT LOAD VS TEMPERATURE)

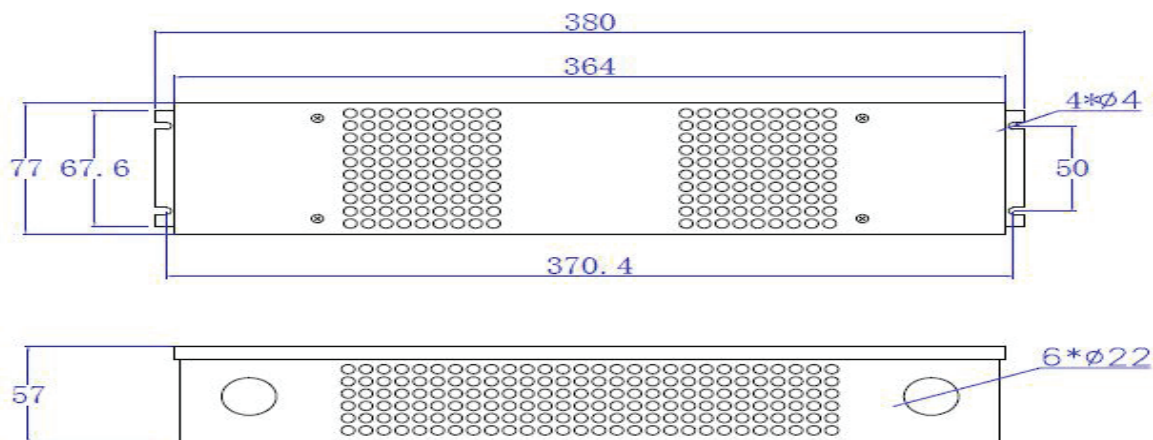


- To extend their life, please refer to the Derating Curve and derate according to the temperature.

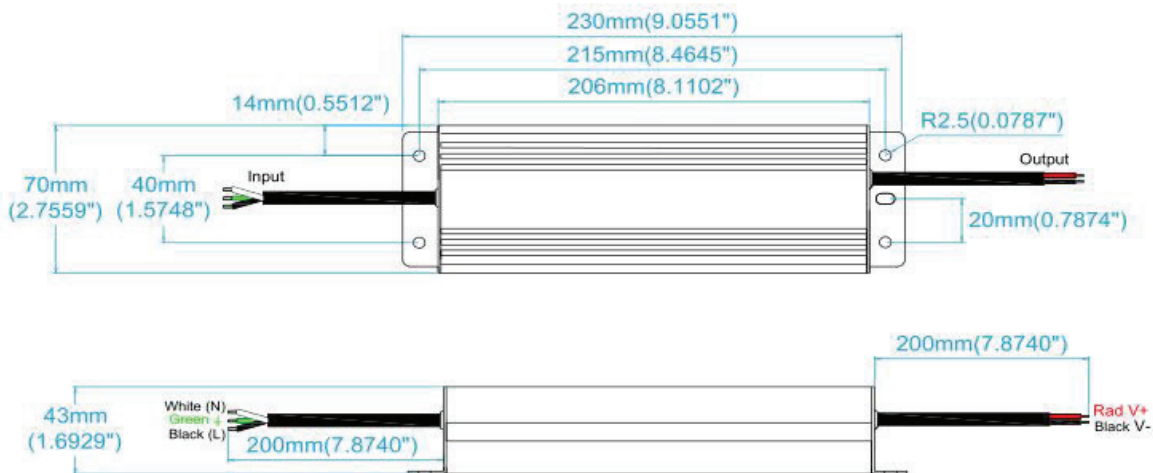
### POWER FACTOR CURVE



MECHANICAL SPECIFICATION



J5 Junction Box



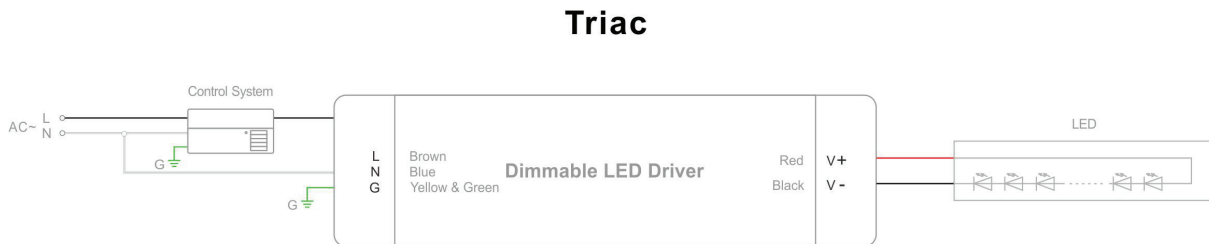
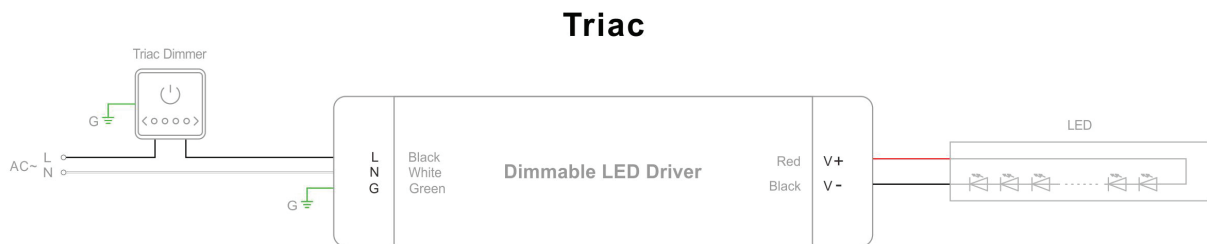
24V Version

- Input wire 3\*18AWG Black and White to be connected to AC L and N, Green wire to ground.
- Output cable 2\*16AWG "Red" (+) to LED Positive side (+), "Black" (-) to LED Negative side (-).
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

## 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. Works with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers.
3. Min. loading is about 10%.
4. Please try to use dimmer with power at least 1.5 times as the output power of the driver.



## Instruction

- This driver should be installed by a qualified person.
- Please make sure this driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before testing in order to avoid light and power supply damage.
- If driver does not work correctly, please contact CLEANLIFE for support.

Please visit our website or contact us for more information: [www.cleanlife.com](http://www.cleanlife.com)

**CLEANLIFE®**

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PLEASE NOTE: Product specifications are based off of third party test reports and are subject to change without notice.

