

## FEATURES

- Output constant voltage
- Input voltage range: 100-277VAC
- UL, cUL listed, Class 2 unit, Type HL rated. FCC
- Built-in PFC function / PF>0.99
- High efficiency > 89% / Dimming range: 0~100% / Load: 10-100%
- Protections: short circuit / over voltage / over heat
- PWM output, does not change the color index
- Full protection aluminum housing, for dry, damp and wet location
- Cooling by free air convection
- Strong compatibility, flicker-free dimming, PWM output
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lightings.
- 0-10V dimming: 0-10V / 1-10V / Potentiometer / 10V PWM 4 in 1
- Phase dimming: work with forward phase / leading edge, MLV and reverse phase / trailing edge, ELV, TRIAC dimmers

### TECHNICAL SPECIFICATIONS

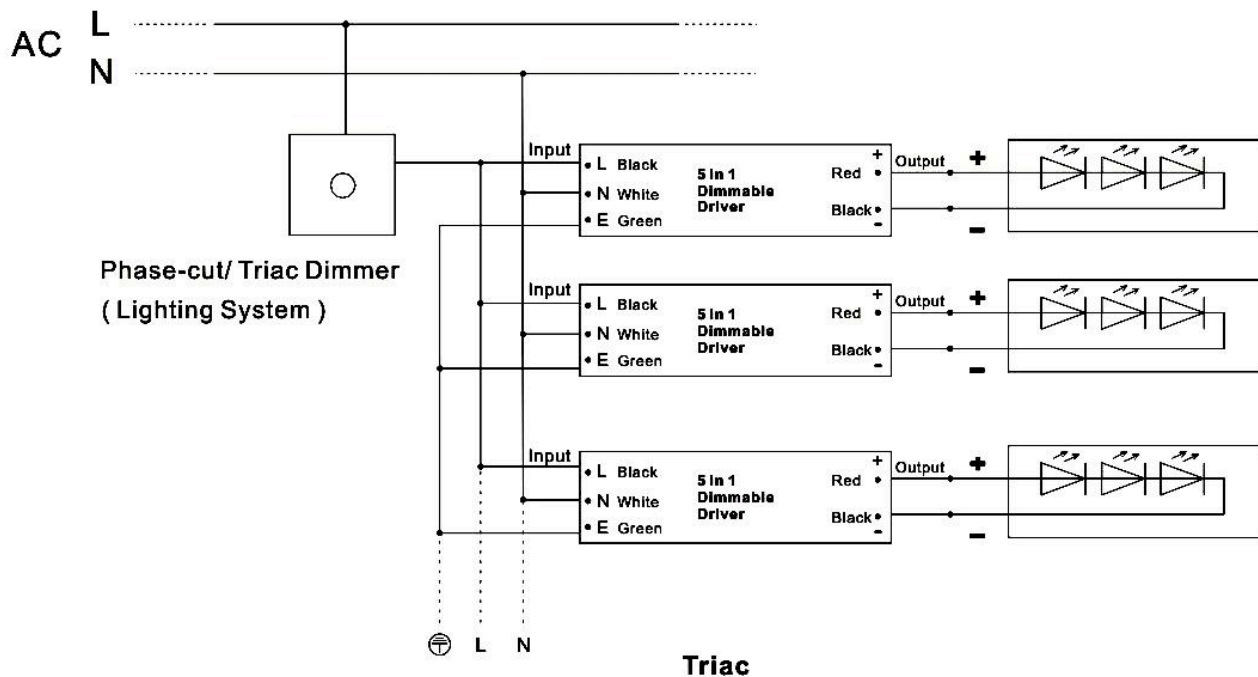
| Model        |  | LCPSLCODIM010V-24V-192W  |
|--------------|--|--|
| Output       | DC Voltage   | 24V  |
|              | Voltage Tolerance  | ±0.5V  |
|              | Voltage Regulation   | ±0.5%  |
|              | Load Regulation  | ±1%  |
|              | Rated Current  | 2*4A   |
|              | Rated Power  | 192W (2*96W)   |
| Input        | Voltage Range  | 100-277VAC   |
|              | Frequency Range  | 47 ~ 63HZ  |
|              | Power Factor (Typ.)@full load  | 0.99@120VAC 0.94@277VAC  |
|              | THD(Typ.)@full load  | <20%   |
|              | Inrush Current(Typ.)   | 38A (twidth=960us) @277VAC ; 19A (twidth=1.3ms) @120VAC                        |
|              | Efficiency(Typ.)@Full Load   | 87%@120VAC 89%@277VAC  |
|              | AC Current (Typ.)  | 2.3A @100VAC   |
|              | Leakage current  | <0.50mA  |
| Protection   | Short Circuit  | shut down o/p voltage, re-power on to recover after fault condition is removed |
|              | Over load  | ≤120% constant current limiting, auto-recovery                                 |
|              | Over temperature   | 100°C±10°C shut down o/p voltage, automatically recover after cooling          |
|              | Over Current   | ≤1.4*I out   |
| Environment  | Working temp.  | -40 ~ +60°C  |
|              | Working Humidity   | 20 ~ 90%RH, non-condensing   |
|              | Storage TEM., Humidity   | -40 ~ +80°C, 10 ~ 95%RH  |
|              | Temp. coefficient  | ±0.03%/°C (0 ~ 50°C)   |
|              | Vibration  | 10 ~ 500Hz 2G 10min./1 cycle, period for 60min.each along X,Y,Z axes           |
| Safety & EMC | Safety standards   | UL8750+UL1310  |
|              | Withstand voltage  | I/P-O/P: 1.88KVAC  |
|              | Isolation resistance   | I/P-O/P: 100MΩ/500VDC/25°C/70%RH   |
|              | EMC EMISSION   | FCC Part 15 B  |
| Others       | Weight   | 2.3Kg  |
| Notes        | 1. All parameters NOT specially mentioned are measured at 110V & 277VAC input, rated load and 25°C of ambient temperature<br>2. Tolerance: includes set us tolerance, line regulation and load regulation. |  |

- Connect the black and white input wires to the AC L (live) and N (neutral) respectively, and the green wire to the ground.
- For the output wires, connect the red wire to the positive side (+) of the LED and the black wire to the negative side (-) of the LED.
- Connect the purple DIM (+) cable to the positive (+) terminal of the 0/1-10V dimmer signal, and the grey DIM (-) cable to the negative (-) terminal of the 0/1-10V dimmer signal.
- It is crucial to ensure these connections are made correctly to prevent malfunction and potential damage to the product.

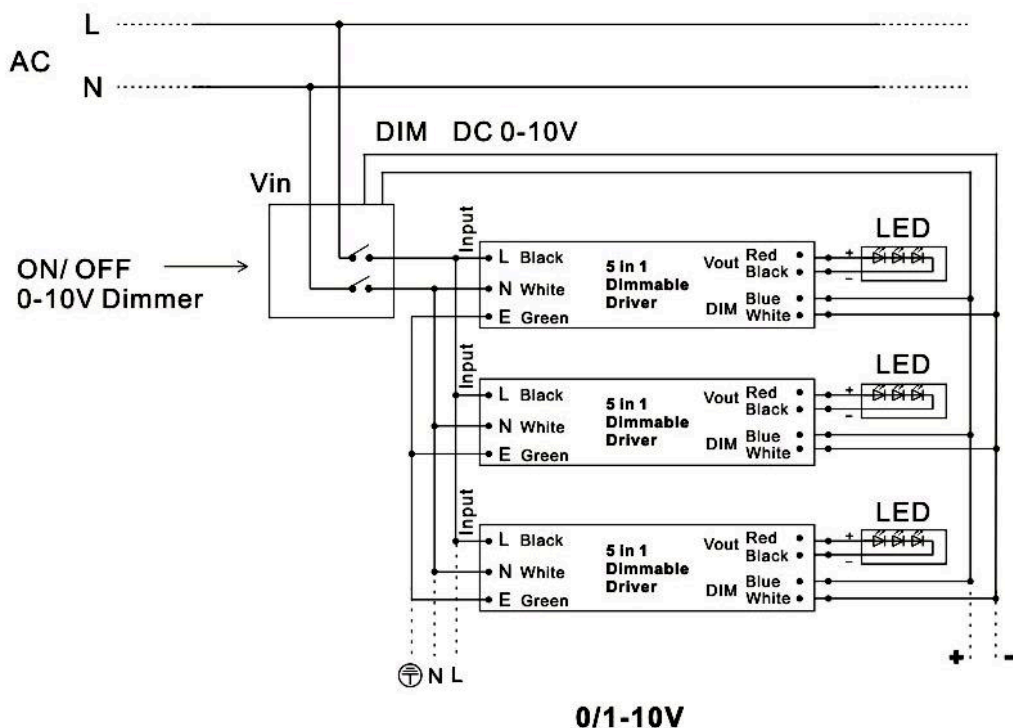
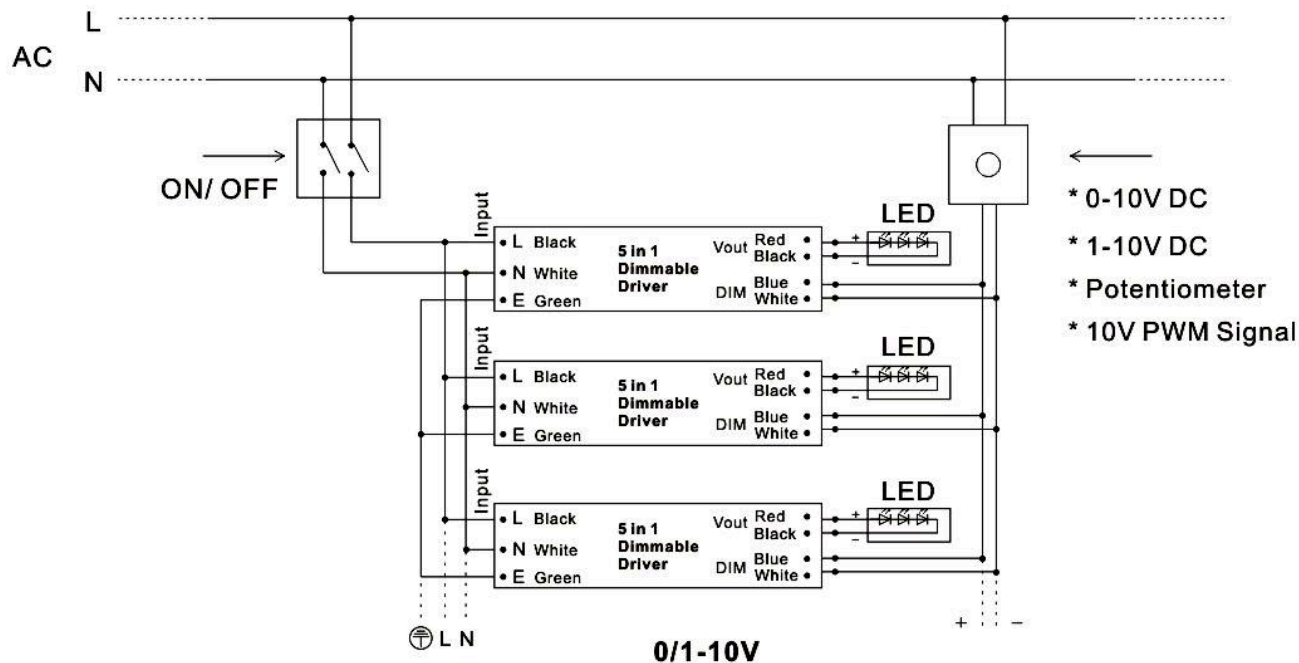
## CONNECTING DIAGRAM

### Using TRIAC/Phase cut dimming

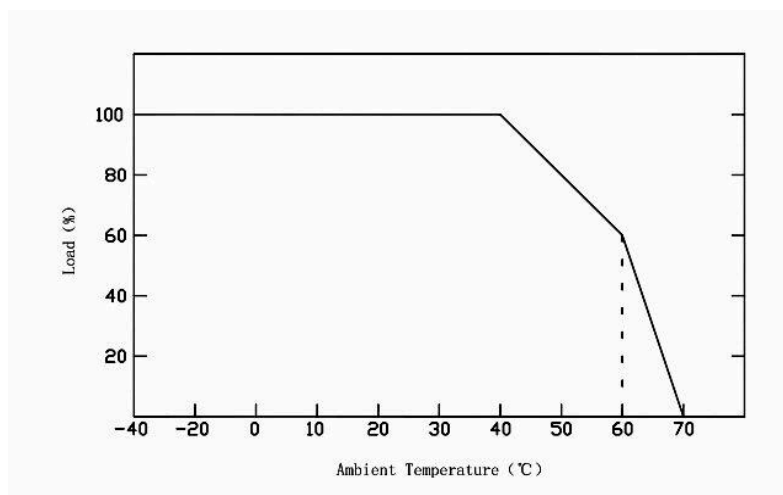
1. The Pulse-Width Modulation (PWM) of the output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting to a phase/Triac dimmer of the lighting system.
2. Compatible with forward phase/leading edge (MLV) and reverse phase/trailing edge (ELV, TRIAC) dimmers.
3. Please ensure to use dimmers with a power rating at least 1.5 times greater than the output power of the driver.



Using 0-10V/1-10V dimming



## DERATING CURVE



Make sure to adjust the load based on the load derating curve, which accounts for changes in ambient temperature. This helps prolong the working life of the system.

## INSTRUCTION

- This driver should be installed by qualified and professional person;
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- Ensure that wiring is correct before test in order to avoid light and power supply damage;