

### FEATURES



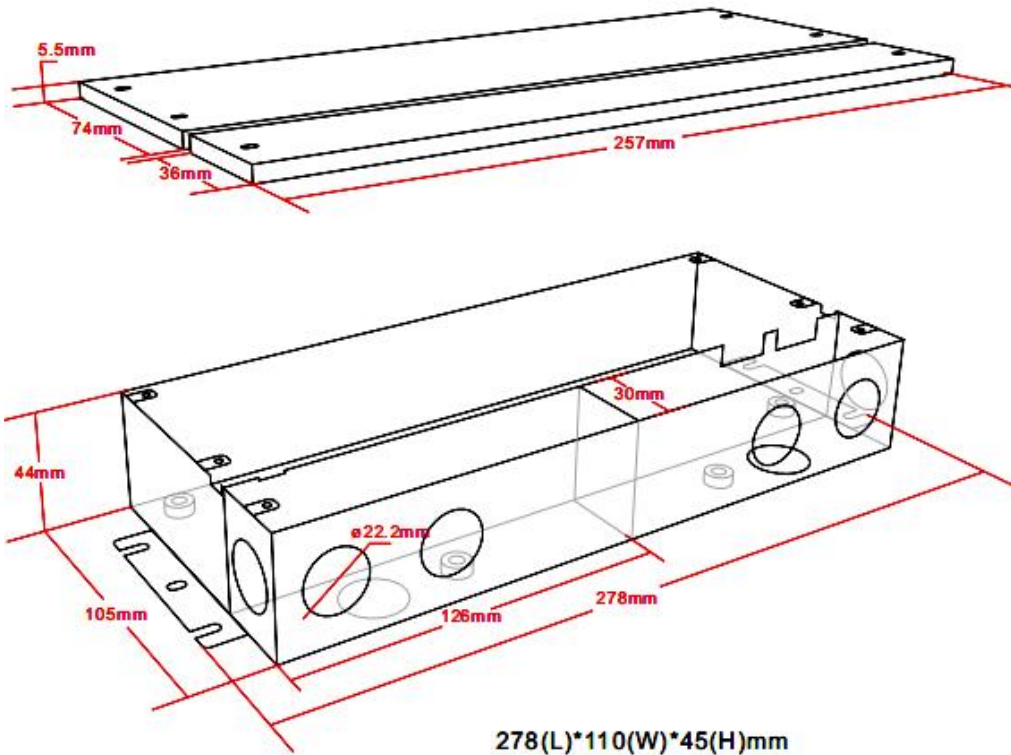
- Range 100-305VAC , Typical: 100-277VAC
- Built-in PFC function PF>0.99
- Efficiency > 92%
- Protections: short circuit/over loading/ Over temperature
- PWM output, does not change the color index
- Cooling by free air convection
- metal case, suitable for **dry, damp, wet location**
- Flicker-free
- Dimming function:
  - ✓ Phase dimming: work with forward phase /leading edge ,MLV and Reverse phase /trailing edge ,ELV, TRIAC dimmers
  - ✓ 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
- Dimming range: 0-100%.
- Load: 10-100%
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 7 years warranty
- UL, cUL listed, Type HL rated. FCC

### SPECIFICATIONS

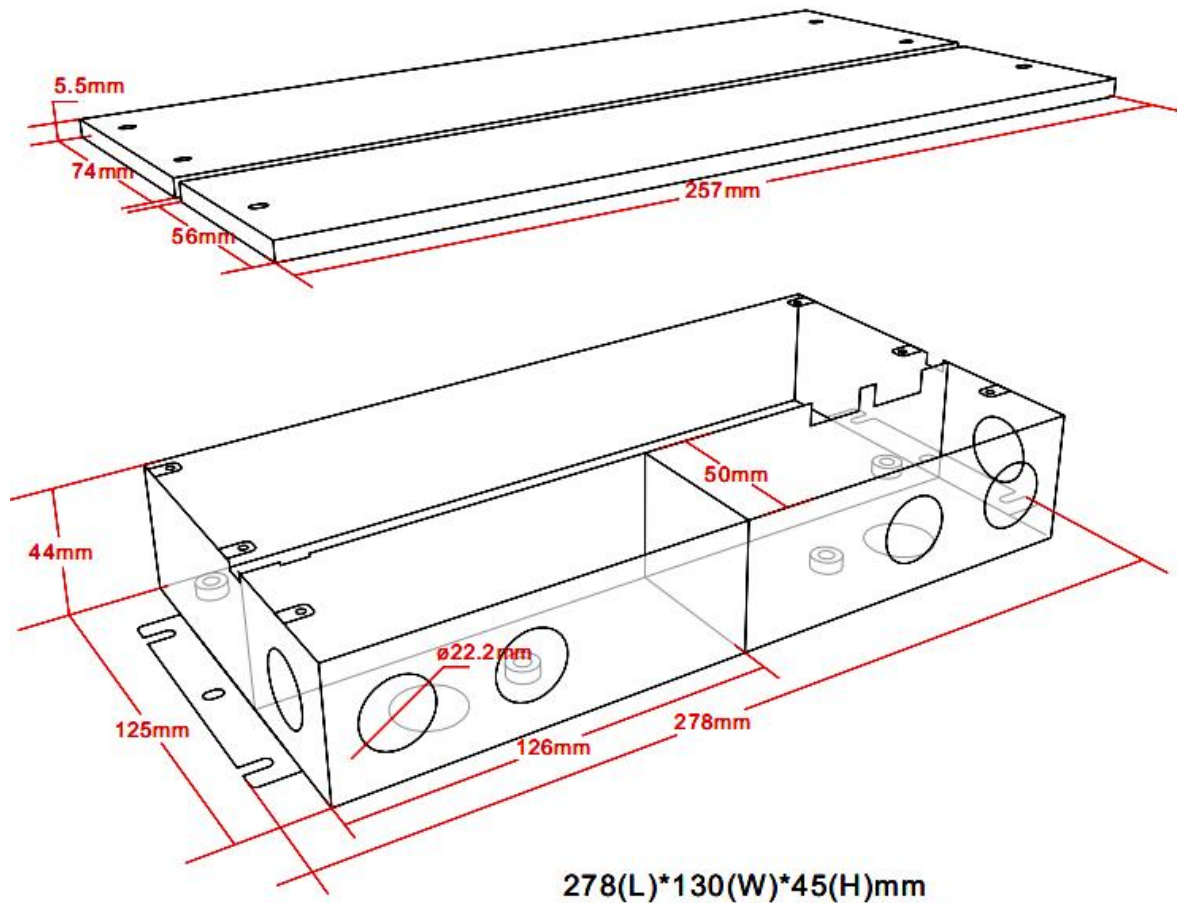
|                 |                         |  |                         |
|-----------------|-------------------------|--|-------------------------|
| Output          | DC Voltage              | 24V  |                         |
|                 | Rated Current           | 12.5A  |                         |
|                 | Rated Power             | 300W   |                         |
|                 | Voltage Tolerance       | ±0.5V  |                         |
|                 | Voltage Regulation      | ±0.5%  |                         |
|                 | Load Regulation         | ±1%  |                         |
| Input           | Voltage Range           | 110-277VAC   |                         |
|                 | Frequency Range         | 47-63Hz  |                         |
|                 | Power Factor@ full load | 0.99@120VAC  | 0.95@277VAC             |
|                 | THD (Typ.) @ full load  | <20%   |                         |
|                 | Efficiency @ full load  | 88% @120Vac  | 92%@277Vac              |
|                 | AC Current (Max.)       | 3.4A@100Vac  |                         |
|                 | Inrush Current (Typ.)   | 20A, 50%, 1.9ms @120Vac  | 35A, 50%, 1.9ms @277Vac |
| Leakage current | <0.50mA                 |  |                         |
| Protection      | Short Circuit           | shut down o/p voltage, re-power on to recover after fault condition is removed |                         |
|                 | Over Loading            | ≤120% Hiccup mode, recovers automatically after fault condition is removed     |                         |
|                 | Over temperature        | 100°C±10°C shut down o/p voltage, automatically recover after cooling.         |                         |
| Environment     | Working TEMP.           | -40~+60°C (see below derating curve)   |                         |
|                 | Working Humidity        | 20~90%RH, non-condensing   |                         |
|                 | Storage TEMP. Humidity  | -40~+80°C, 10~95%RH  |                         |

|             |  |   |
|-------------|--|---|
|             | TEMP .coefficient  | ±0.03%/°C (0~50°C)  |
|             | Vibration  | 10~500Hz, 5G 10min./1 cycle,period for 60min. each along X,Y,Z axes |
| Safety& EMC | Safety standards   | UL8750  |
|             | 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   | About 2.0Kg   |
|             | Size   | 1.0 version: 278*110*45mm / 2.0 version: 278*110*45mm               |
|             | packing  | 10PCS/CTN   |
| Notes       | 1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature.<br>2. To extend the driver's using life ,please reduce the loading at lower input voltage. |   |

**DIMENSIONS**



Units: mm Tolerance:  
0.5-2mm



Unit: mm

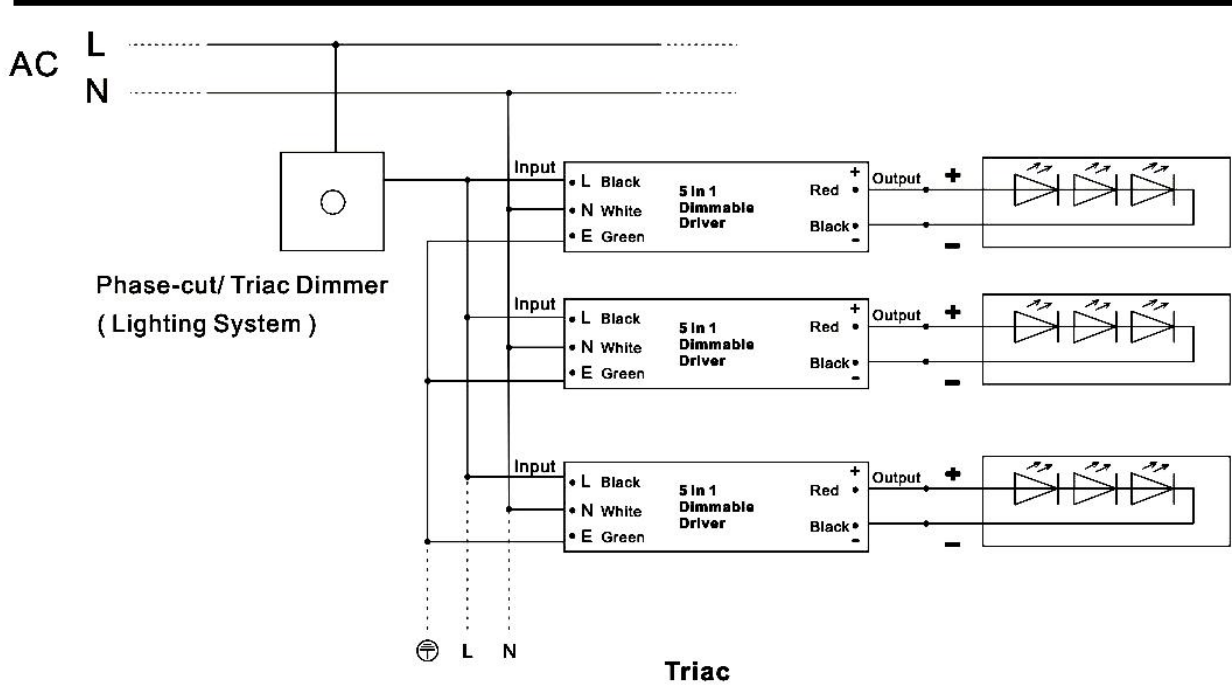
Tolerance: 0.5-2mm

- Input wire Black and White to be connected to AC L and N ,Green wire go ground,
- Output wire Red to LED Positive side (+) , Black to LED Negative side (-).
- Dimming cable DIM (+) Purple to 0/1-10V dimmer signal(+), DIM (-) Grey to 0/1-10V dimmer signal (-)
- Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged.

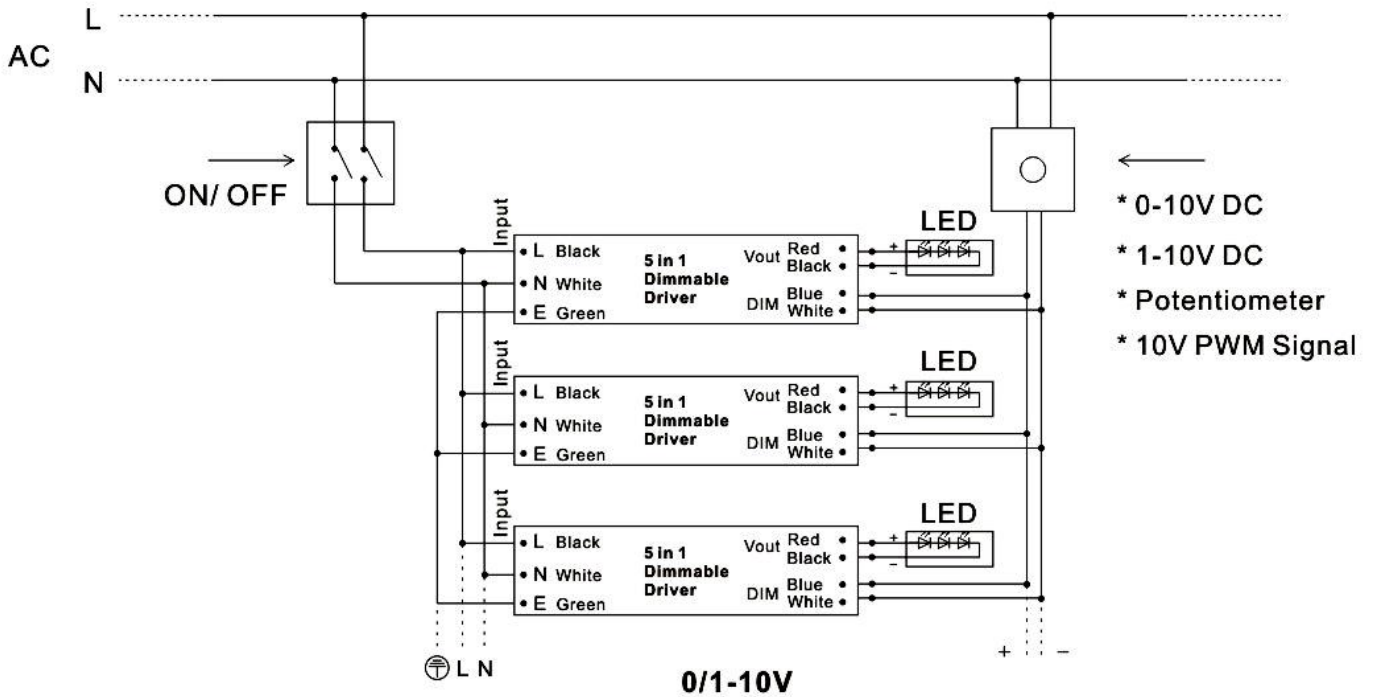
### ■ Connecting Diagram

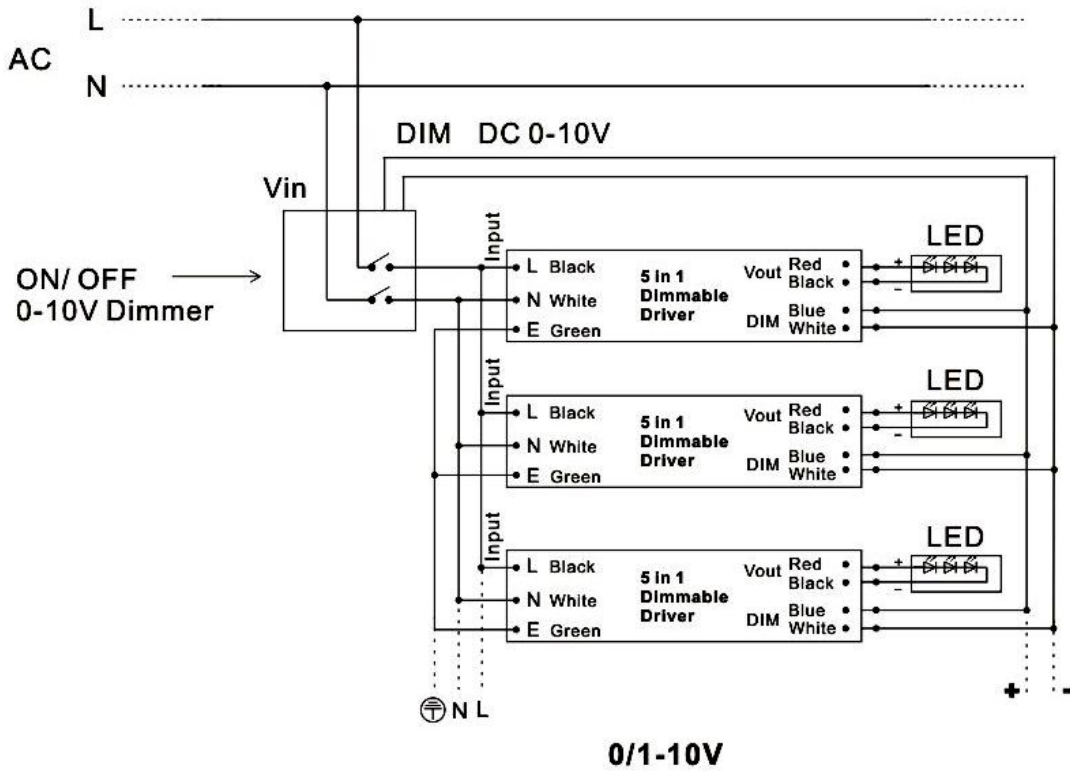
#### ➤ Using TRIAC/Phase cut dimming

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 of lighting system.
2. Work with forward phase /leading edge ,MLV and reverse phase /trailing edge ,ELV, TRIAC dimmers.
3. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

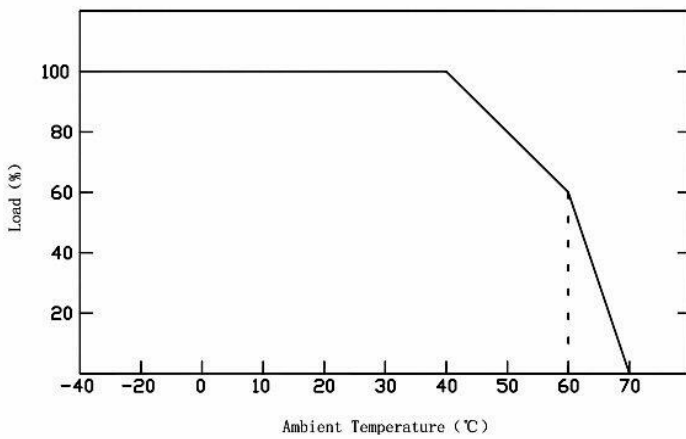


➤ **Using 0-10V/1-10V dimming**





**Derating Curve**



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

**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;