

# Constant Voltage Phase/Triac dimmable driver---120W **PYJD** series **PWM output**

## Features



- Output constant voltage
- Universal AC input: 100-130VAC
- Power Factor: up to 0.65
- High efficiency :up to 85%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection aluminum housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward & Reverse phase, Triac, ELV Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Compliance to worldwide safety regulations for lighting



## Specification

| Model        |                        | PYJD-12120-TDL                                                                                                                                       | PYJD-24120-TDL | PYJD-36120-TDL      | PYJD-48120-TDL |
|--------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|----------------|
| Certificates |                        | ETL、CETL、FCC                                                                                                                                         | ETL、CETL、FCC   | ETL、CETL、FCC        | ETL、FCC        |
| output       | DC Voltage             | 12V                                                                                                                                                  | 24V            | 36V                 | 48V            |
|              | Voltage Tolerance      | ±0.5V                                                                                                                                                |                |                     |                |
|              | Rated current          | 10A                                                                                                                                                  | 5A             | 3.3A                | 2.5A           |
|              | Rated power            | 120W                                                                                                                                                 |                |                     |                |
| input        | Voltage Range          | 100~130VAC                                                                                                                                           |                |                     |                |
|              | Frequency Range        | 50~60HZ                                                                                                                                              |                |                     |                |
|              | Power Factor (Typ.)    | PF≥0.65                                                                                                                                              |                |                     |                |
|              | Efficiency (Typ.)      | 83%                                                                                                                                                  | 84%            | 85%                 | 85%            |
|              | AC Current (Typ.)      | 2A                                                                                                                                                   | 2A             | 2A                  | 2A             |
|              | Leakage current        | < 0.70mA/110VAC                                                                                                                                      |                |                     |                |
| Protection   | Short Circuit          | Hiccup mode, recovers automatically after fault condition is removed                                                                                 |                |                     |                |
|              | Over Current           | ≤1.4*I out                                                                                                                                           |                |                     |                |
|              | Over Loading           | ≤120%                                                                                                                                                |                |                     |                |
|              | Over temperature       | 100℃±10℃ (The output voltage will turn off when the temperature is higher than 100℃±10℃, after the temperature drop off ,it will recovery) automatic |                |                     |                |
| Environment  | Working TEMP.          | -40~+60℃                                                                                                                                             |                |                     |                |
|              | Working Humidity       | 20~90%RH, non-condensing                                                                                                                             |                |                     |                |
|              | Storage TEMP. Humidity | -40~+80℃, 10~95%RH                                                                                                                                   |                |                     |                |
|              | 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       | UL1012                                                                                                                                               |                |                     |                |
|              | Withstand voltage      | I/P-O/P:1500KVAC                                                                                                                                     |                |                     |                |
|              | Isolation resistance   | I/P-O/P: 100MΩ/500VDC/25℃/70%RH                                                                                                                      |                |                     |                |
|              | EMC EMISSION           | FCC Part 15 B                                                                                                                                        |                |                     |                |
| others       | Net. Weight            | 1.3Kg                                                                                                                                                |                | 1.5Kg               |                |
|              | Size                   | 230*70*46mm (L*W*H)                                                                                                                                  |                | 380*77*57mm (L*W*H) |                |
|              | packing                | 324*279*176mm 10PCS/CTN                                                                                                                              |                |                     |                |

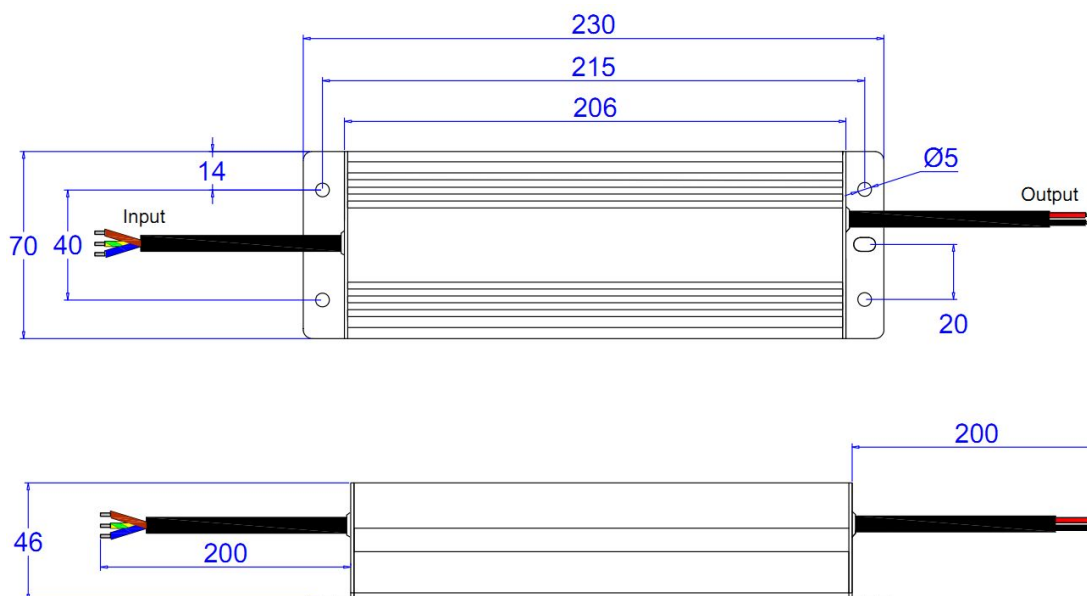
Due to continuous improvements, the information herein may be changed without notice

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## Constant Voltage Phase/Triac dimmable driver---120W PYJD series **PWM output**

|       |                                                                                                                                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes | <ol style="list-style-type: none"> <li>1. All parameters if NOT specially mentioned are measured at 110VAC input , rated load and 25°C of ambient temperature.</li> <li>2. To extend the driver's using life ,please reduce the loading at lower input voltage.</li> <li>3.Loading should be 5-100%.</li> </ol> |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### ■120W Phase/Triac Dimmable driver Mechanical Specification

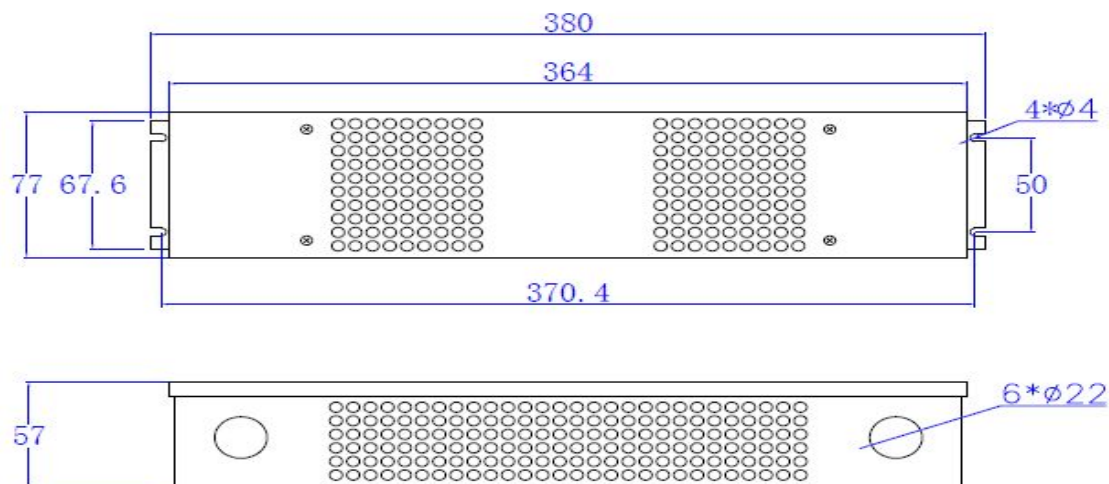


※ Input black(L) and white(N) wires to be connected AC, Green wire to be connected ground; output red and black wires to be connected led lighting.

### ■ Real picture & Mechanical Specification of 120W Phase/Triac Dimmable Driver with junction box



## Constant Voltage Phase/Triac dimmable driver---120W **PYJD** series **PWM** outp---4



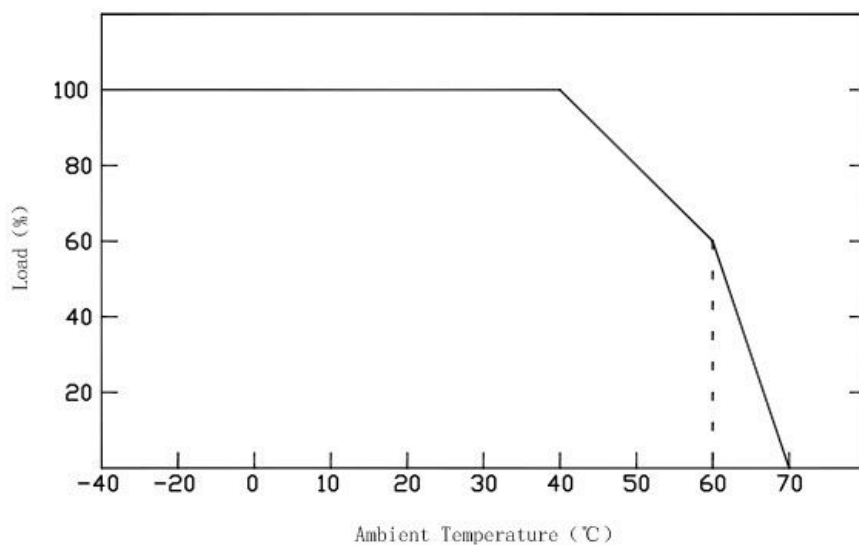
### ■Dimming Operation

- ※Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.
- ※Forward phase and Reverse phase, ELV, Triac Dimmers

### ■Warning

- ※Prevent to reverse polarity; Output polarity: RED "+"; BLACK "-"
- ※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;
- ※Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;
- ※Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

### ■Derating Curve



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

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## ■ Connecting Diagram

