



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**

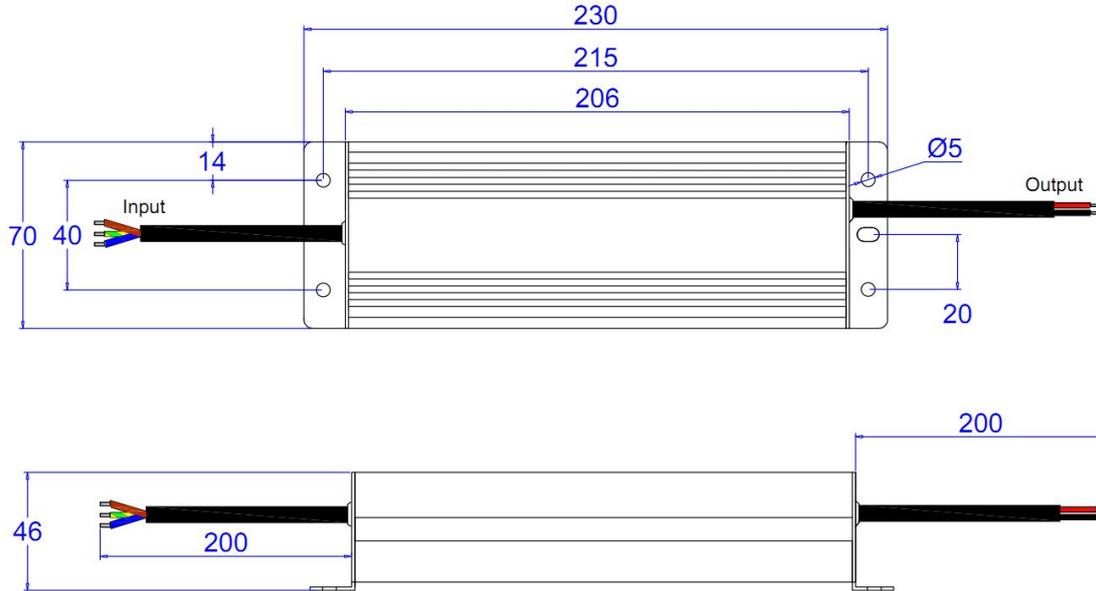
| Model        | PYJD-12120-TDL         | PYJD-24120-TDL  | PYJD-36120-TDL | PYJD-48120-TDL      |      |
|--------------|------------------------|---|----------------|---------------------|------|
| Certificates | ETL、CETL、FCC           | ETL、CETL、FCC  | ETL、CETL、FCC   | ETL、FCC             |      |
| 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°C±10°C (The output voltage will turn off when the temperature is higher than100°C±10°C, after the temperature drop off ,it will recovery) automatic |                |                     |      |
| Environment  | Working TEMP.          | -40~+60°C   |                |                     |      |
|              | 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, 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°C/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   |                |                     |      |



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|       |  |
|-------|--|
| 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**



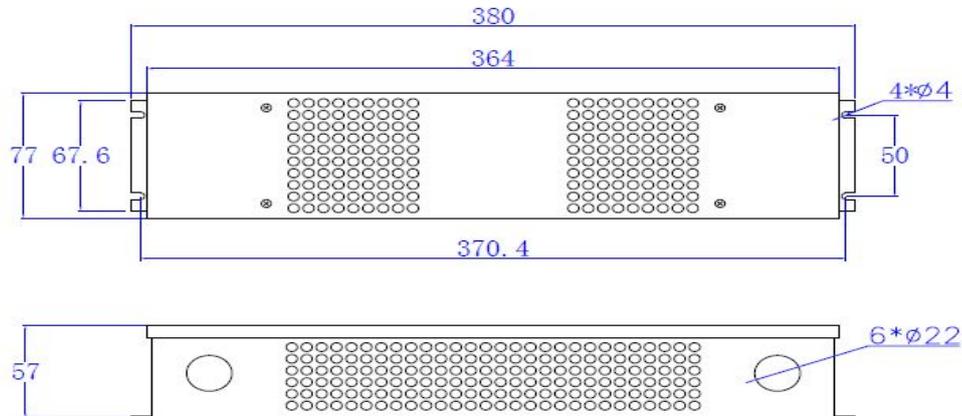
※ Input black(L) and white(N) wires to be connected AC, Green wire to be connected ground; output red and black wires to be connected led lighting.

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





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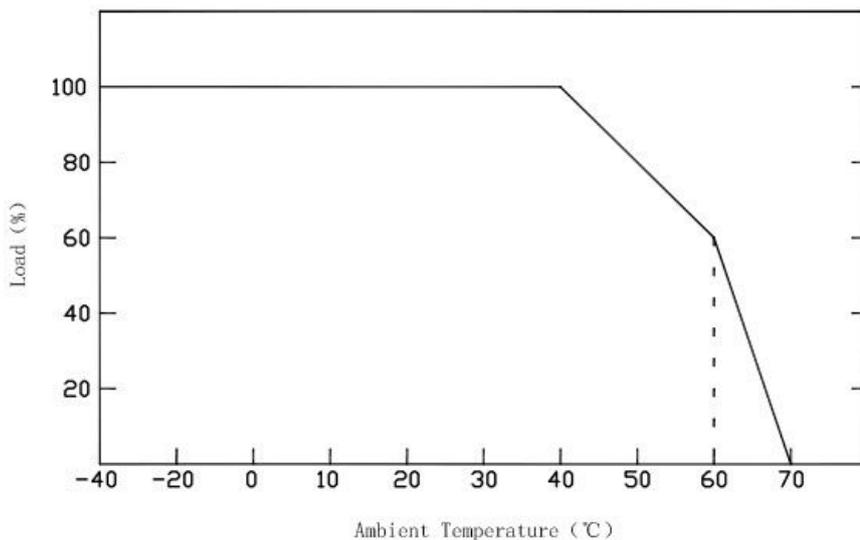
**■Dimming Operation**

- ※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.



■ **Connecting Diagram**

