



## LED Waterproof Power Supply(C&V)

- Protections: short circuit/over load/over voltage/over temperature
- Small size, easy installation
- IP67 design for indoor or outdoor installation
- It can be used in dry, wet and rainy environment
- Cooling by free air, high reliability
- 100% full load burn-in test
- Suitable for internal lights application for I / II / III.
- Widely used in LED lighting and IT equipment

Compliance to worldwide safety regulation for led lightings.



SELV

IP67

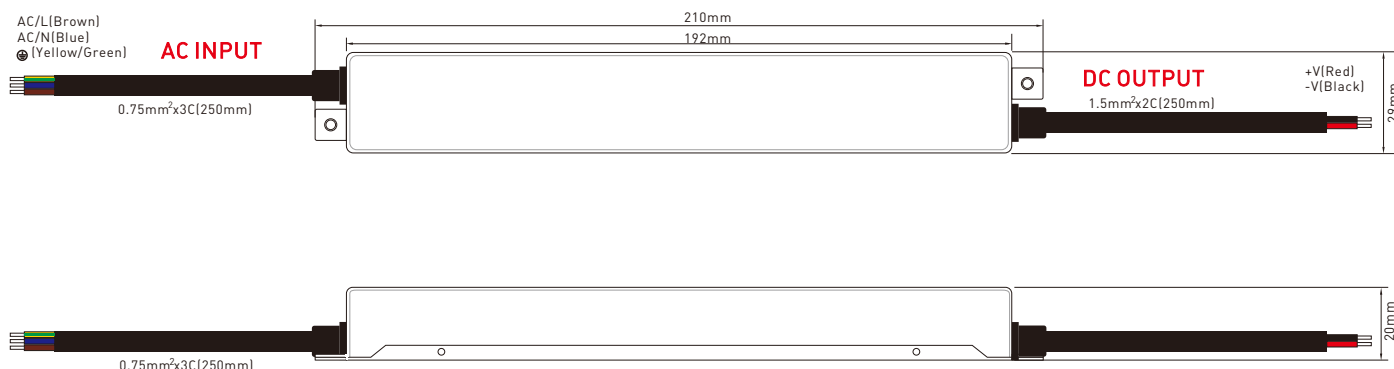


### Specification

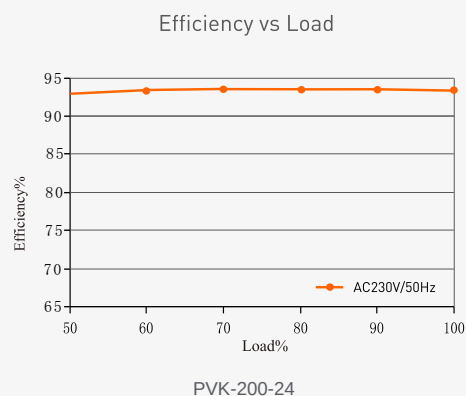
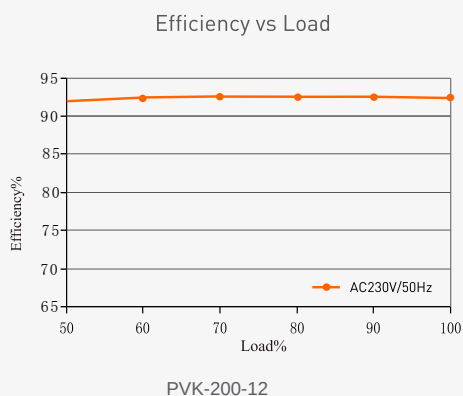
| Model                           |                                                                                                                                                                                                                                                                                                                                                  | PVK-200-12                                                                                                                                                                 | PVK-200-24   |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| OUTPUT                          | Output voltage                                                                                                                                                                                                                                                                                                                                   | 12VDC                                                                                                                                                                      | 24VDC        |
|                                 | Output voltage range                                                                                                                                                                                                                                                                                                                             | 12VDC±0.5VDC                                                                                                                                                               | 24VDC±0.5VDC |
|                                 | Output current                                                                                                                                                                                                                                                                                                                                   | Max 16.7A                                                                                                                                                                  | Max 8.5A     |
|                                 | Output power                                                                                                                                                                                                                                                                                                                                     | Max 200W                                                                                                                                                                   |              |
|                                 | Output power range                                                                                                                                                                                                                                                                                                                               | 0~200W                                                                                                                                                                     |              |
|                                 | Ripple & Noise                                                                                                                                                                                                                                                                                                                                   | ≤400mV                                                                                                                                                                     | ≤800mV       |
|                                 | Linear Regulation                                                                                                                                                                                                                                                                                                                                | ±1%                                                                                                                                                                        |              |
|                                 | Load Regulation                                                                                                                                                                                                                                                                                                                                  | ±1%                                                                                                                                                                        |              |
|                                 | Start-up Time [Typ]                                                                                                                                                                                                                                                                                                                              | 150ms/230VAC    180ms/115VAC                                                                                                                                               |              |
|                                 | Hold Up Time[Typ]                                                                                                                                                                                                                                                                                                                                | 15ms/230VAC    10ms/115VAC                                                                                                                                                 |              |
| INPUT                           | Input voltage                                                                                                                                                                                                                                                                                                                                    | 200-240Vac   or   100-130Vac                                                                                                                                               |              |
|                                 | Frequency                                                                                                                                                                                                                                                                                                                                        | 50/60Hz                                                                                                                                                                    |              |
|                                 | Input current                                                                                                                                                                                                                                                                                                                                    | 1.48A/230Vac   or   2.9A/115Vac                                                                                                                                            |              |
|                                 | Power factor                                                                                                                                                                                                                                                                                                                                     | PF>0.6                                                                                                                                                                     |              |
|                                 | No-load power consumption                                                                                                                                                                                                                                                                                                                        | < 0.55W                                                                                                                                                                    |              |
|                                 | Efficiency (typ.)                                                                                                                                                                                                                                                                                                                                | 92%                                                                                                                                                                        | 93%          |
|                                 | Inrush current(typ.)                                                                                                                                                                                                                                                                                                                             | Cold start 85A at 230Vac                                                                                                                                                   |              |
|                                 | Control surge capability                                                                                                                                                                                                                                                                                                                         | L,N:2KV   L,N-PE:4KV                                                                                                                                                       |              |
|                                 | Leakage current                                                                                                                                                                                                                                                                                                                                  | Max. 0.5mA                                                                                                                                                                 |              |
| ENVIRONMENT                     | Working temperature                                                                                                                                                                                                                                                                                                                              | ta: -30°C~ 50°C   tc: 80°C                                                                                                                                                 |              |
|                                 | Working humidity                                                                                                                                                                                                                                                                                                                                 | 20 ~ 99%RH, condensing(Waterproof)                                                                                                                                         |              |
|                                 | Storage temp., humidity                                                                                                                                                                                                                                                                                                                          | -40°C ~ 80°C, 10~95%RH                                                                                                                                                     |              |
| PROTECTION                      | Overtemperature                                                                                                                                                                                                                                                                                                                                  | Protection type: Gradually reduce the output voltage as the temperature rises, directly turn off the output voltage, and automatically recover after the temperature drops |              |
|                                 | Over load protection                                                                                                                                                                                                                                                                                                                             | Load current ≥110%-150%, gradually reduce the output voltage, until closed, can be automatically restored                                                                  |              |
|                                 | Short circuit protection                                                                                                                                                                                                                                                                                                                         | Protection type: It can be automatically restored after the fault is eliminated.                                                                                           |              |
| SAFETY & EMC                    | Withstand voltage                                                                                                                                                                                                                                                                                                                                | I/P-O/P:3750Vac                                                                                                                                                            |              |
|                                 | Isolation resistance                                                                                                                                                                                                                                                                                                                             | I/P-O/P: 100MΩ/500VDC/25°C/70%RH                                                                                                                                           |              |
|                                 | Safety standards                                                                                                                                                                                                                                                                                                                                 | IEC/EN61347;IEC/EN60950;IP67                                                                                                                                               |              |
|                                 | EMC Test Standards                                                                                                                                                                                                                                                                                                                               | EN55015: 2013;EN61547: 2009;<br>EN61000-3-2:2014; EN61000-3-3:2013                                                                                                         |              |
| Reliability and Quality Control | Impact aging                                                                                                                                                                                                                                                                                                                                     | 100% of the product is fully loaded and impacted for 4 hours under an environment of at least 40°C±5°C                                                                     |              |
|                                 | Component derating                                                                                                                                                                                                                                                                                                                               | Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value                                            |              |
| NOTE                            | 1. All parameters not specifically mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.<br>2. Ripple and noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth.<br>3. Ensure that the power supply is used under the rated parameters and environment. |                                                                                                                                                                            |              |

## Dimensions

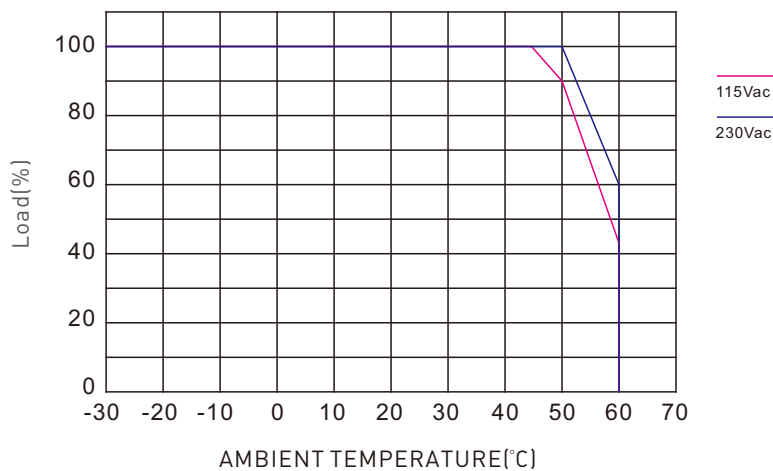
Unit:mm



## Relationship diagrams



## Temperature load curve



## Packaging Information

|                 |                    |
|-----------------|--------------------|
| DIMENSION       | 210x29x20mm(LxWxH) |
| PACKING         | mm(LxWxH)          |
| CARTON QUANTITY | PCS                |
| CARTON SIZE     | mm(LxWxH)          |
| WEIGHT          | 248g±10g/PCS       |