

## LED Switching Power Supply(C&V)

- Protections: short circuit/over load/over voltage/over temperature
- Design for indoor installations
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- 100% full load burn-in test
- Widely used in LED lighting devices, dedicated to cabinet lighting
- Compliance to worldwide safety regulation for led lightings.

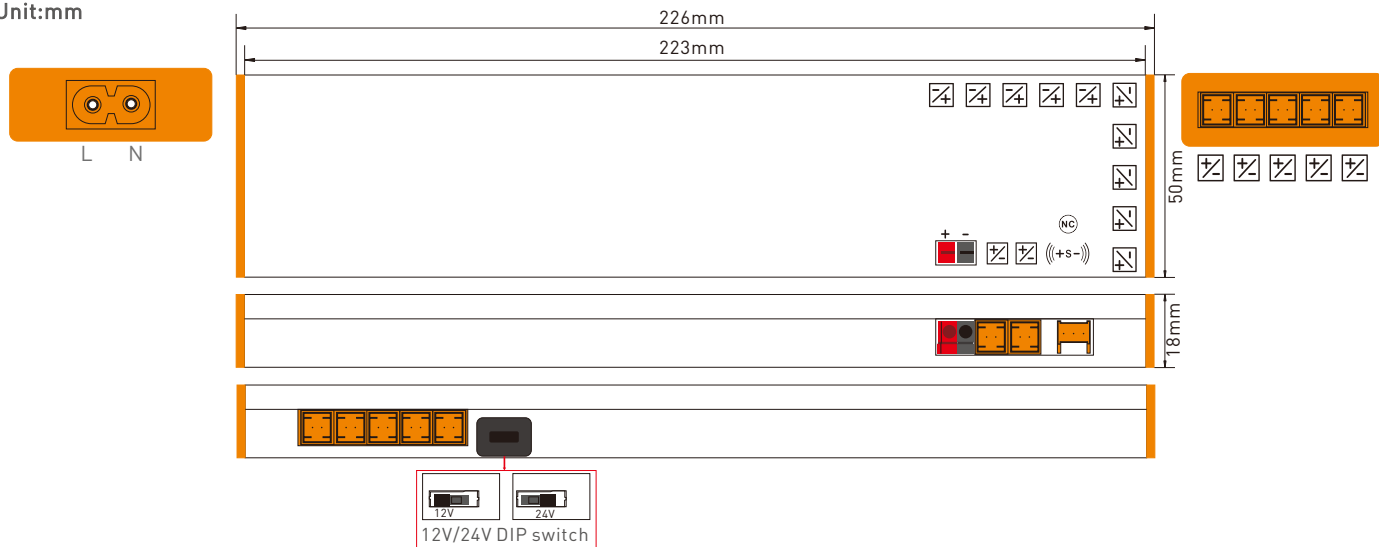


### Specification

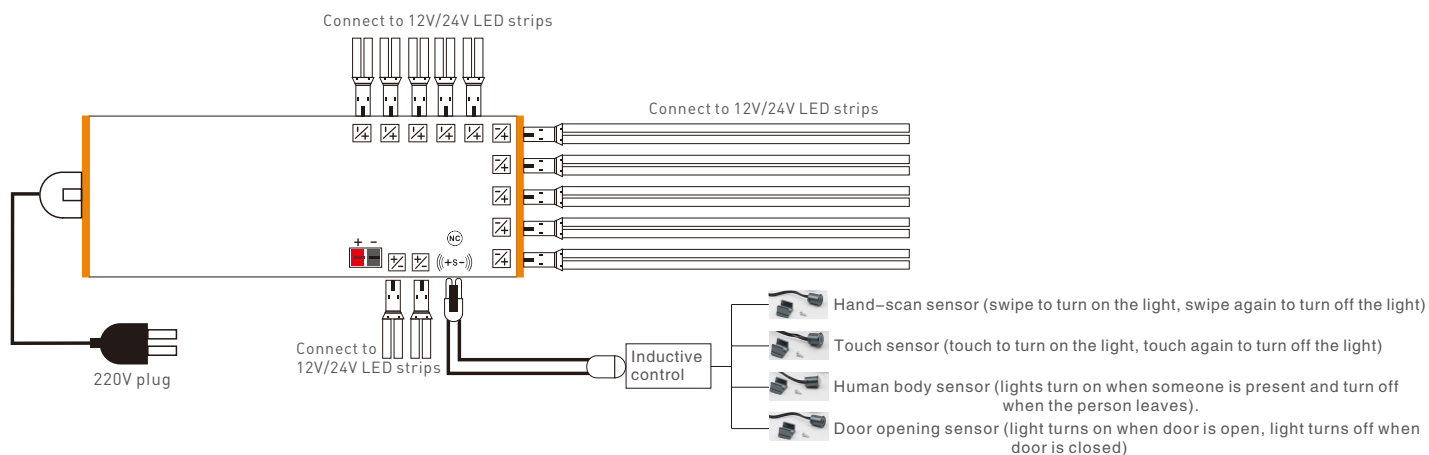
|                                 |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                 |                                                                                                             |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Model                           |                                                                                                                                                                                                                                                                                                                                                  | 150WHY-12&24                                                                                                                    |                                                                                                             |
| OUTPUT                          | Output voltage                                                                                                                                                                                                                                                                                                                                   | 12VDC or 24VDC                                                                                                                  |                                                                                                             |
|                                 | Output voltage range                                                                                                                                                                                                                                                                                                                             | 12VDC±3%                                                                                                                        | 24VDC±2%                                                                                                    |
|                                 | Output current                                                                                                                                                                                                                                                                                                                                   | Max 12.5A                                                                                                                       | Max 6.25A                                                                                                   |
|                                 | Output power                                                                                                                                                                                                                                                                                                                                     | Max 150W                                                                                                                        |                                                                                                             |
|                                 | Output power range                                                                                                                                                                                                                                                                                                                               | 0~150W                                                                                                                          |                                                                                                             |
|                                 | Ripple & Noise                                                                                                                                                                                                                                                                                                                                   | ±2%                                                                                                                             |                                                                                                             |
|                                 | Linear Regulation                                                                                                                                                                                                                                                                                                                                | ±1%                                                                                                                             |                                                                                                             |
|                                 | Load Regulation                                                                                                                                                                                                                                                                                                                                  | ±1%                                                                                                                             |                                                                                                             |
|                                 | Start-up Time (Typ)                                                                                                                                                                                                                                                                                                                              | 600ms/230VAC                                                                                                                    |                                                                                                             |
|                                 | Hold Up Time(Typ)                                                                                                                                                                                                                                                                                                                                | 12ms/230VAC                                                                                                                     |                                                                                                             |
| INPUT                           | Input voltage                                                                                                                                                                                                                                                                                                                                    | 200-240Vac                                                                                                                      |                                                                                                             |
|                                 | Frequency                                                                                                                                                                                                                                                                                                                                        | 50Hz                                                                                                                            |                                                                                                             |
|                                 | Input current                                                                                                                                                                                                                                                                                                                                    | 1.8A Max.                                                                                                                       |                                                                                                             |
|                                 | Power factor                                                                                                                                                                                                                                                                                                                                     | PF>0.55                                                                                                                         |                                                                                                             |
|                                 | No-load power consumption                                                                                                                                                                                                                                                                                                                        | < 0.5W                                                                                                                          |                                                                                                             |
|                                 | Efficiency (typ.)                                                                                                                                                                                                                                                                                                                                | 90%                                                                                                                             | 91%                                                                                                         |
|                                 | Inrush current(typ.)                                                                                                                                                                                                                                                                                                                             | Cold start 80A at 230Vac                                                                                                        |                                                                                                             |
|                                 | Control surge capability                                                                                                                                                                                                                                                                                                                         | L,N:1KV                                                                                                                         |                                                                                                             |
|                                 | Leakage current                                                                                                                                                                                                                                                                                                                                  | Max. 0.5mA                                                                                                                      |                                                                                                             |
| ENVIRONMENT                     | Working temperature                                                                                                                                                                                                                                                                                                                              | ta: -30°C~ 45°C tc: 90°C                                                                                                        |                                                                                                             |
|                                 | Working humidity                                                                                                                                                                                                                                                                                                                                 | 20 ~ 99%RH, non- condensing                                                                                                     |                                                                                                             |
|                                 | Storage temp., humidity                                                                                                                                                                                                                                                                                                                          | -40°C ~ 80°C, 10~95%RH                                                                                                          |                                                                                                             |
| PROTECTION                      | Overtemperature                                                                                                                                                                                                                                                                                                                                  | Protection type: Turn off the output voltage, after the temperature drops, re-energize to restore.                              |                                                                                                             |
|                                 | Over load protection                                                                                                                                                                                                                                                                                                                             | Shut down the output when current load ≥110%~150%, auto recovers.                                                               |                                                                                                             |
|                                 | Short circuit protection                                                                                                                                                                                                                                                                                                                         | Protection type: It can be automatically restored after the fault is eliminated.                                                |                                                                                                             |
|                                 | Over voltage protection                                                                                                                                                                                                                                                                                                                          | Shut down the output when non-load voltage≥13.5-18V, re-power on to recover after fault condition is removed.                   | Shut down the output when non-load voltage≥27-35V, re-power on to recover after fault condition is removed. |
| SAFETY & EMC                    | Withstand voltage                                                                                                                                                                                                                                                                                                                                | I/P-O/P:2000Vac                                                                                                                 |                                                                                                             |
|                                 | Isolation resistance                                                                                                                                                                                                                                                                                                                             | I/P-O/P: 100MΩ/500VDC/25°C/70%RH                                                                                                |                                                                                                             |
|                                 | Safety standards                                                                                                                                                                                                                                                                                                                                 | IEC/EN61347-1, IEC/EN61347-2-13                                                                                                 |                                                                                                             |
|                                 | EMC emission                                                                                                                                                                                                                                                                                                                                     | EN55015, EN61000-3-2 Class C, IEC61000-3-3                                                                                      |                                                                                                             |
|                                 | EMC immunity                                                                                                                                                                                                                                                                                                                                     | EN61000-4-2,3,4,5,6,8,11 EN61547                                                                                                |                                                                                                             |
| 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

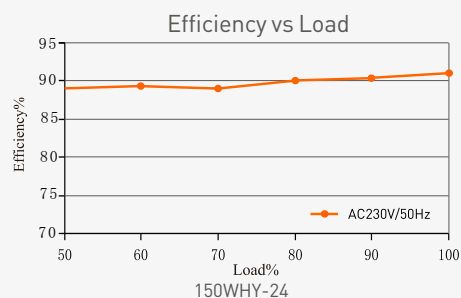
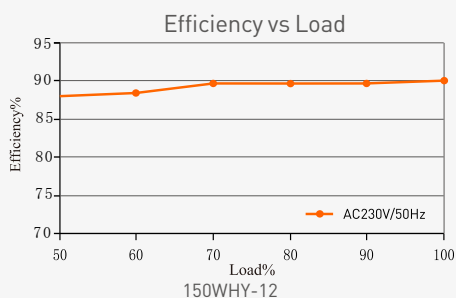
Unit:mm



## Wiring diagram



## Relationship diagrams



## Packaging Information

|           |                    |
|-----------|--------------------|
| DIMENSION | 226x50x18mm(LxWxH) |
| PACKING   | 385x65x34mm(LxWxH) |
| WEIGHT    | 264g±10g/PCS       |

## Temperature load curve

