

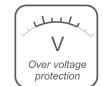
LED Ultra-Thin Power Supply(C&V)

- Universal AC input/full range(100-277VAC)
- Built in active PFC function
- Efficiency up to 93%, super thin and small size.
- Protections:short circuit/over load/over voltage/over temperature
- IP67 design for indoor or outdoor installation
- It can be used in dry, wet and rainy environment
- Cooling by free air, high reliability
- Up to 50000-hour life time
- 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.

100-277VAC

PF>0.96

THD≤5%

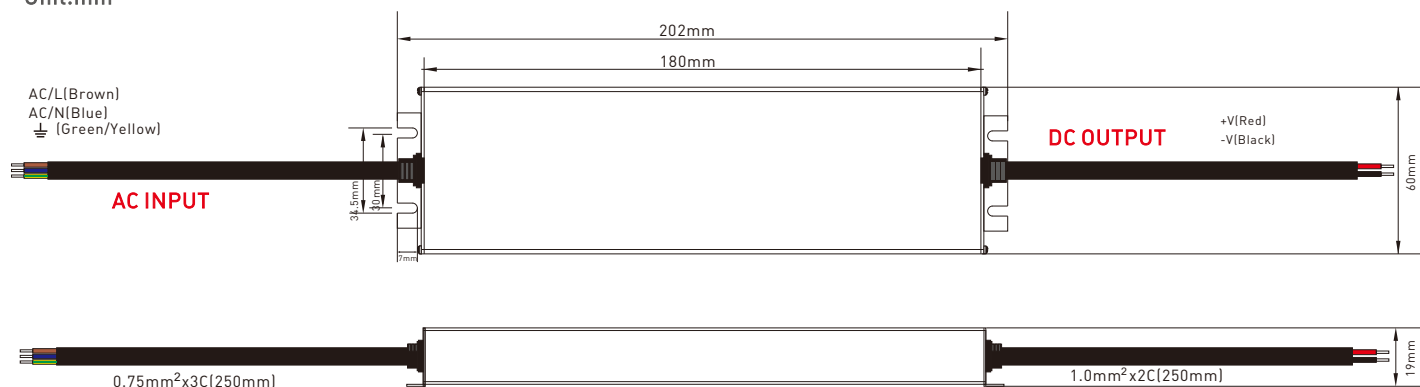


Specification

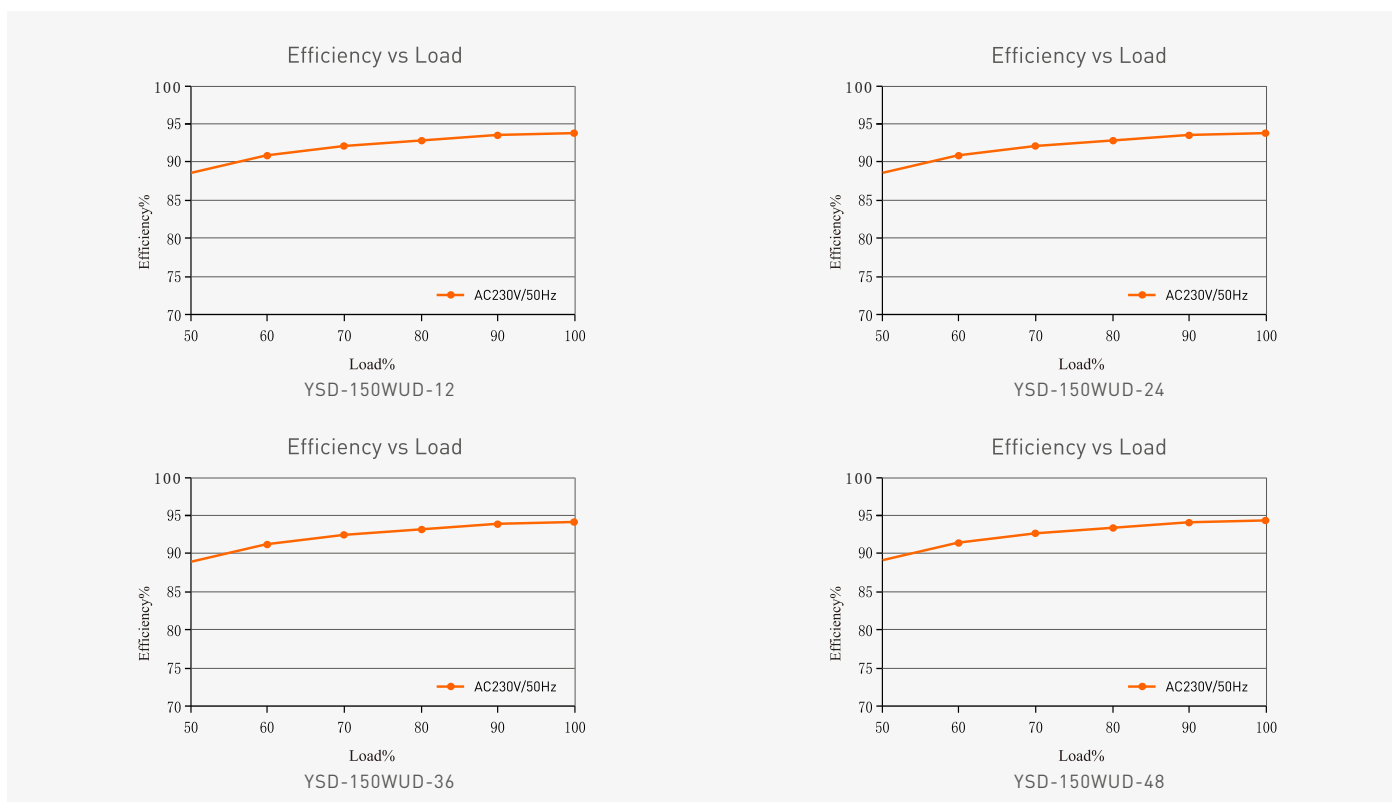
| Model | YSD-150WUD-12 | YSD-150WUD-24 | YSD-150WUD-36 | YSD-150WUD-48 | |
|---------------------------------|--|---|---------------|--|--------------|
| OUTPUT | Output voltage | 12VDC | 24VDC | 36VDC | 48VDC |
| | Output voltage range | 12VDC±0.3VDC | 24VDC±0.6VDC | 36VDC±0.9VDC | 48VDC±1.2VDC |
| | Output current | Max 12.5A | Max 6.25A | Max 4.17A | Max 3.2A |
| | Output power | Max 150W | | | |
| | Output power range | 0~150W | | | |
| | Ripple & Noise | ≤170mV | ≤250mV | ≤250mV | ≤250mV |
| | Linear Regulation | ±1% | | | |
| | Load Regulation | ±1% | | | |
| | Start-up Time (Typ) | 320ms/230VAC 400ms/115VAC | | | |
| | Rise Time(Typ) | 11ms/230VAC 11ms/115VAC | | | |
| Hold Up Time(Typ) | 19ms/230VAC 19ms/115VAC | | | | |
| INPUT | Input voltage | 100-277Vac | | | |
| | Frequency | 50/60Hz | | | |
| | Input current | 1.68~0.65A | | | |
| | Power factor | PF>0.96/230Vac, at full load; PF>0.98/115Vac, at full load | | | |
| | No-load power consumption | < 0.5W | | | |
| | THD | ≤8% at 230Vac,at full load; ≤5% at 115Vac,at full load | | | |
| | Efficiency (typ.) | 93% | 93.5% | 94% | 94% |
| | Inrush current(typ.) | 50A/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 | | | |
| | Vibration | 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes. | | | |
| PROTECTION | Overtemperature | Protection type: Turn off the output voltage, after the temperature drops, re-energize to restore. | | | |
| | Over voltage protection | Output voltage ≥14-18V, turn off the output, after the abnormality is eliminated, re-energize to recover. | | Output voltage ≥29-35V, turn off the output, after the abnormality is eliminated, re-energize to recover | |
| | 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. | | | |
| 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 emission | EN55015:2013;FCC Part 15B;EN61547:2009;EN61000-3-2:2014;EN61000-3-3:2013 | | | |
| | 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. 2. Ripple and noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth. 3. Ensure that the power supply is used under the rated parameters and environment. | | | | |

Dimensions

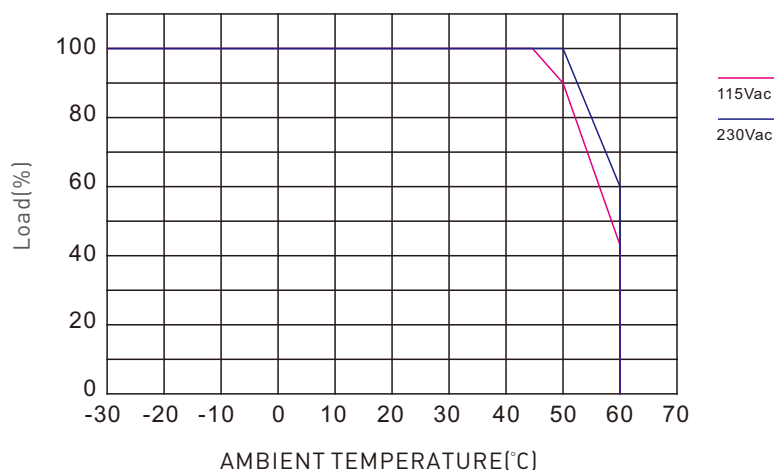
Unit:mm



Relationship diagrams



Temperature load curve



Packaging Information

| | |
|-----------------|----------------------|
| DIMENSION | 202x60x19mm(LxWxH) |
| PACKING | 230x70x24mm(LxWxH) |
| CARTON QUANTITY | 45PCS |
| CARTON SIZE | 390x240x233mm(LxWxH) |
| WEIGHT | 450g±10g/PCS |

LED 超薄防水电源(恒压型)

- 国际通用范围输入(100-277VAC)
- 内置主动式PFC功能, 高PF值
- 效率可高达93%, 超薄超小尺寸, 安装空间小
- 多重保护电路: 短路、过电流、过电压、过温度
- IP67防水等级, 室内室外均可安装
- 可用于干燥、潮湿、淋雨等环境下
- 自然风冷
- 高达50000小时的额定寿命。
- 适合室内 I / II / III 类灯具使用,
- 广泛应用于LED照明类设备、IT类设备等
- 符合世界照明设备安全规范

100-277VAC

PF>0.96

THD≤5%



CE

CB

SELV

IP67

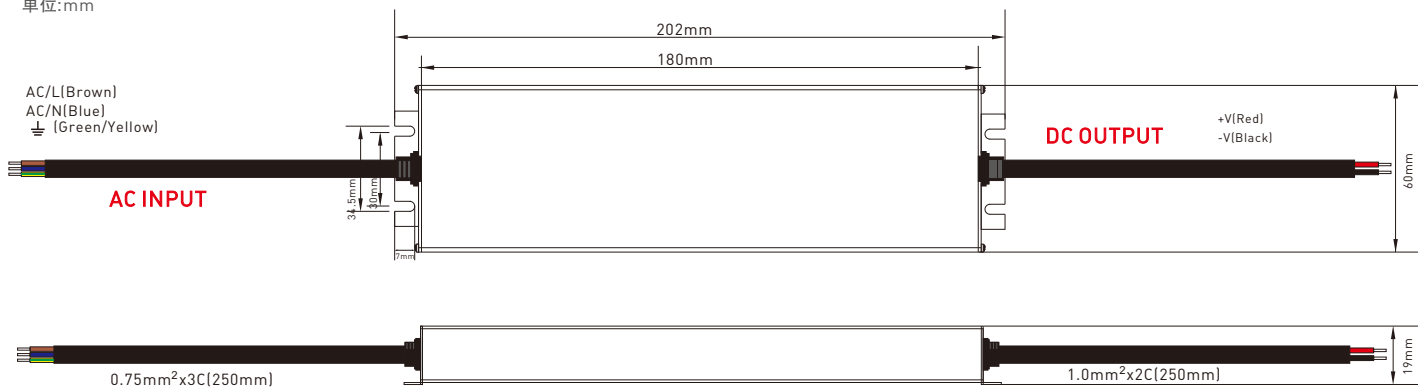


技术参数

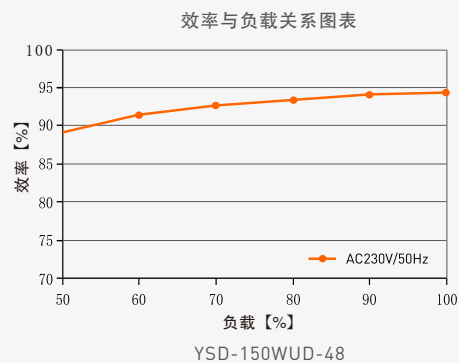
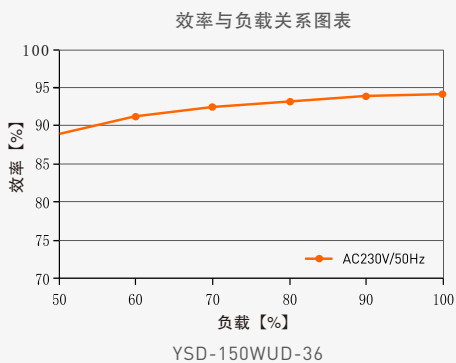
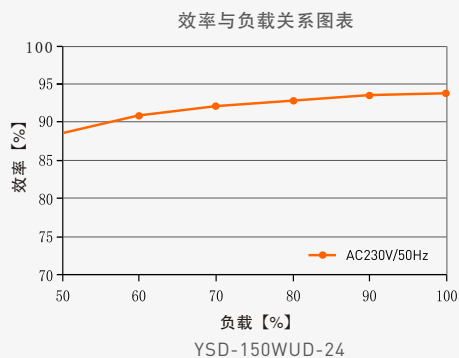
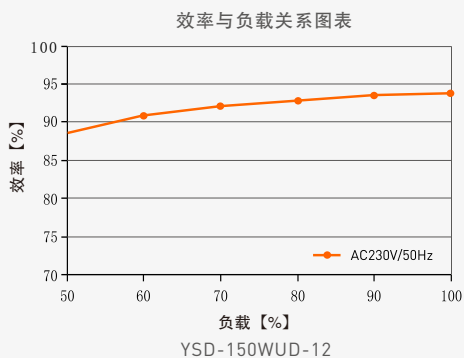
| 型号 | YSD-150WUD-12 | YSD-150WUD-24 | YSD-150WUD-36 | YSD-150WUD-48 | |
|----------|--|--|-----------------------------------|---------------|--------------|
| 输出 | 输出电压 | 12VDC | 24VDC | 36VDC | 48VDC |
| | 输出电压范围 | 12VDC±0.3VDC | 24VDC±0.6VDC | 36VDC±0.9VDC | 48VDC±1.2VDC |
| | 输出电流 | Max 12.5A | Max 6.25A | Max 4.17A | Max 3.2A |
| | 输出功率 | Max 150W | | | |
| | 输出功率范围 | 0~150W | | | |
| | 纹波和噪音 | ≤170mV | ≤250mV | ≤250mV | ≤250mV |
| | 线性调整率 | ±1% | | | |
| | 负载调整率 | ±1% | | | |
| | 启动时间 | 320ms/230VAC 400ms/115VAC | | | |
| 上升时间 | 11ms/230VAC 11ms/115VAC | | | | |
| 保持时间 | 19ms/230VAC 19ms/115VAC | | | | |
| 输入 | 输入电压 | 100-277Vac | | | |
| | 频率范围 | 50/60Hz | | | |
| | 输入电流 | 1.68~0.65A | | | |
| | 功率因素 | PF>0.96/230Vac, 满载; PF>0.98/115Vac, 满载 | | | |
| | 空载功耗 | <0.5W | | | |
| | 谐波THD | ≤8% at 230Vac, 满载; ≤5% at 115Vac, 满载 | | | |
| | 效率(typ.) | 93% | 93.5% | 94% | 94% |
| | 浪涌电流(typ.) | 50A/230VAC | | | |
| | 抗浪涌 | L,N:2KV L,N-PE:4KV | | | |
| 漏电流 | Max. 0.5mA | | | | |
| 环境 | 工作温度 | ta: -30°C ~ 50°C tc: 80°C | | | |
| | 工作湿度 | 20 ~ 99%RH, 冷凝 (防水) | | | |
| | 储存温度 湿度 | -40°C ~ 80°C, 10~95%RH | | | |
| | 耐振动 | 10~500Hz, 2G 12分钟/周期, X, Y, Z轴各72分钟. | | | |
| 保护 | 过温保护 | 保护类型: 关闭输出电压, 温度下降后, 重新通电恢复. | | | |
| | 过压保护 | 输出电压≥14-18V, 关闭输出, 异常排除后, 重新通电恢复. | 输出电压≥29-35V, 关闭输出, 异常排除后, 重新通电恢复. | | |
| | 过载保护 | 负载电流 ≥110%~150%, 关闭输出, 可自动恢复. | | | |
| | 短路保护 | 保护类型: 故障消除后可自动恢复. | | | |
| 安规和电磁规格 | 耐压 | 输入对输出:3750Vac | | | |
| | 绝缘阻抗 | 输入对输出:100MΩ/500VDC/25°C/70%RH | | | |
| | 安全规范 | IEC/EN61347;IEC/EN60950;IP67 | | | |
| | 电磁兼容发射 | EN55015:2013;FCC Part 15B;EN61547:2009;EN61000-3-2:2014;EN61000-3-3:2013 | | | |
| | 电磁兼容抗扰度 | EN61000-4-2,3,4,5,6,8,11 EN61547 | | | |
| 可靠性与质量控制 | 冲击式老化 | 产品100%在至少40°C ± 5°C的环境下满载冲击式老化4小时. | | | |
| | 元器件降额 | 在额定输入输出稳态条件下, 元器件的应力不会超过其最大标称值. | | | |
| 备注 | 1. 所有未特别提及的参数均在230VAC输入, 额定负载和25°C环境温度下测量. 2. 纹波和噪声测试方法:在终端并联0.1uF和47uF的电容, 并在20MHZ带宽下进行测量. 3. 保证电源在额定的参数和环境下使用. | | | | |

尺寸图

单位:mm



关系图表



包装信息

| | |
|------|----------------------|
| 产品尺寸 | 202x60x19mm(LxWxH) |
| 包装尺寸 | 230x70x24mm(LxWxH) |
| 装箱数量 | 45PCS |
| 外箱尺寸 | 390x240x233mm(LxWxH) |
| 产品重量 | 450g±10g/PCS |

温度负载曲线

