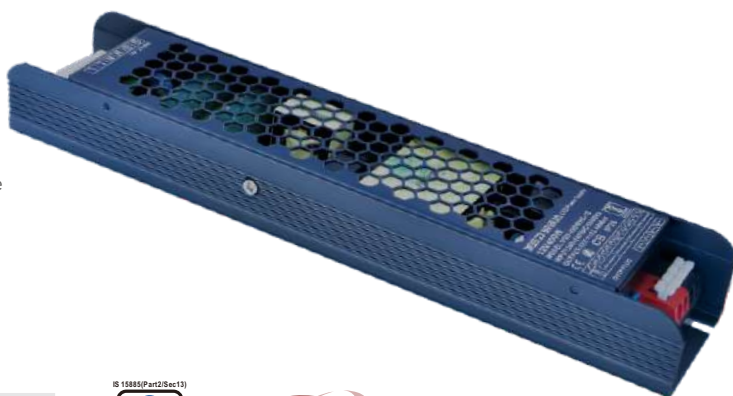


# LED Switching Power Supply



- Protections: short circuit/over load/over voltage/over temperature
- Soothing start, soft light and eye protection , with four gears dimming mode
- Design for indoor installations
- Cooling by free air convection
- 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.



Type Approved  
Safety  
Regular Production  
Surveillance  
www.tuv.com  
ID 1111227254



**CE CB SELV IP20**

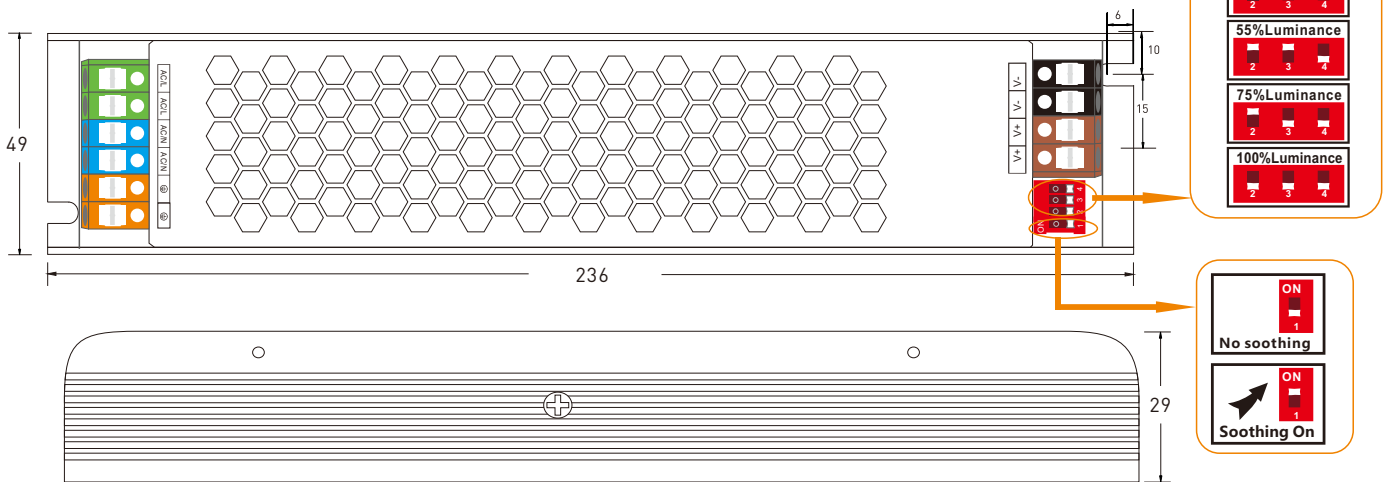


## Specification

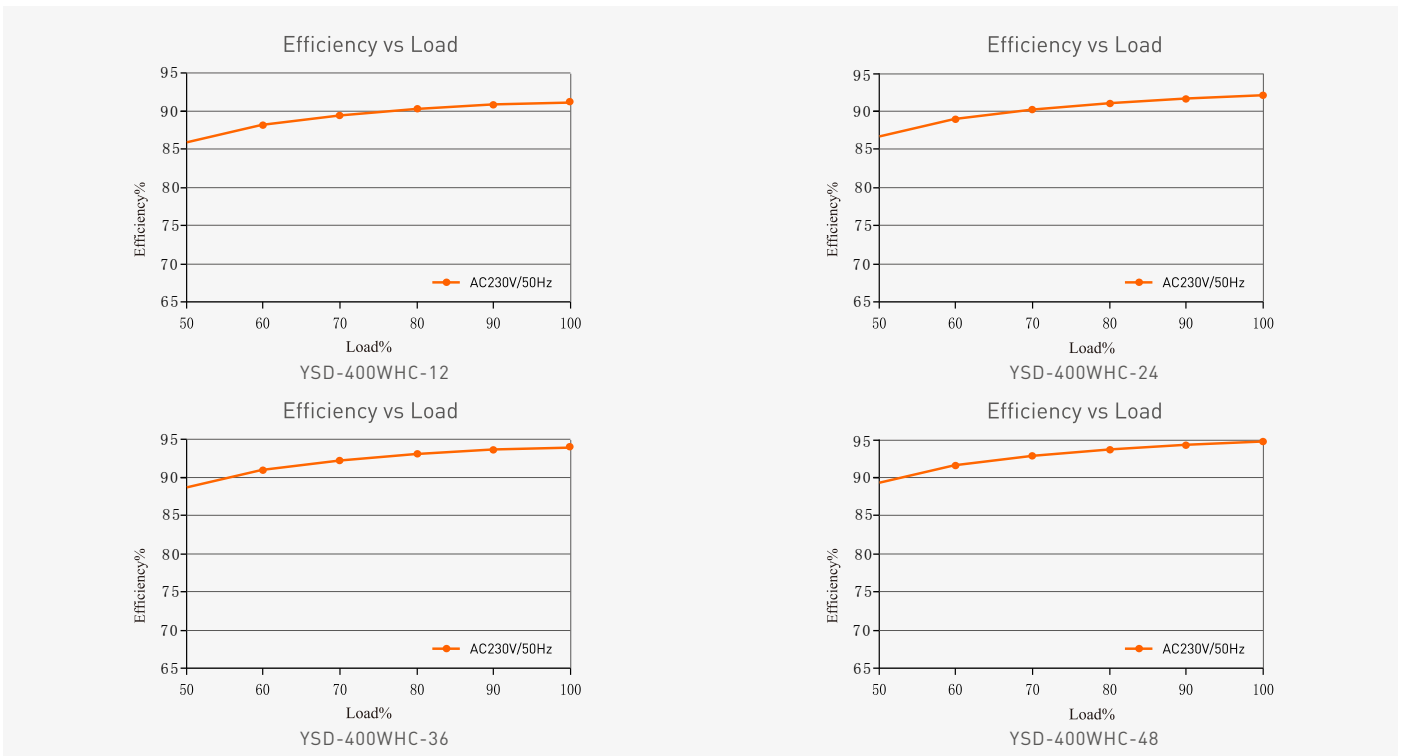
Model	YSD-400WHC-12	YSD-400WHC-24	YSD-400WHC-36	YSD-400WHC-48	
<b>OUTPUT</b>	Output voltage	12VDC	24VDC	36VDC	48VDC
	Output voltage range	12VDC±0.5VDC	24VDC±0.5VDC	36VDC±0.5VDC	48VDC±0.5VDC
	Output current	Max 33.4A	Max 16.7A	Max 11.1A	Max 8.33A
	Output power	Max 400W			
	Output power range	0~400W			
	Ripple & Noise	≤150mV	≤200mV	≤250mV	≤300mV
	Linear Regulation	±1%			
	Load Regulation	±1%			
	Start-up Time (Typ)	500ms/230VAC 800ms/115VAC			
	Hold Up Time (Typ)	12ms/230VAC 10ms/115VAC			
<b>INPUT</b>	Input voltage	200-240Vac or 110-130Vac			
	Frequency	50/60Hz			
	Input current	3.3A/230Vac or 6.4A/115Vac			
	Power factor	PF>0.55			
	No-load power consumption	<0.5W			
	Efficiency (typ.)	92%	93%	94%	95%
	Inrush current (typ.)	Cold start 70A at 230Vac			
	Control surge capability	L,N:1KV L,N-PE:2KV			
Leakage current	Max. 0.5mA				
<b>ENVIRONMENT</b>	Working temperature	ta: -30°C ~ 50°C tc: 80°C			
	Working humidity	20 ~ 99%RH, non-condensing			
	Storage temp., humidity	-40°C ~ 80°C, 10~95%RH			
<b>PROTECTION</b>	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.			
<b>SAFETY &amp; EMC</b>	Withstand voltage	I/P-O/P:3000Vac			
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH			
	Safety standards	IEC/EN61347; IEC/EN60950; IP20			
	EMC Test Standards	EN55015: 2013; EN61547: 2009; EN61000-3-2:2014; EN61000-3-3:2013			
<b>Reliability and Quality Control</b>	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			
<b>NOTE</b>	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



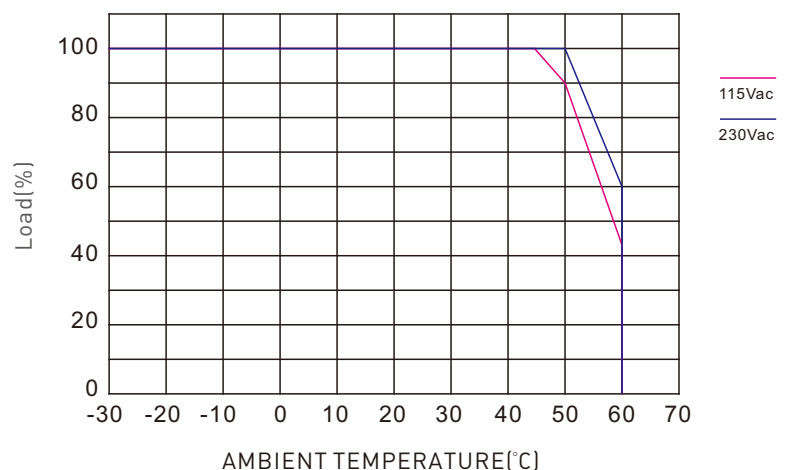
## Relationship diagrams



## Packaging Information

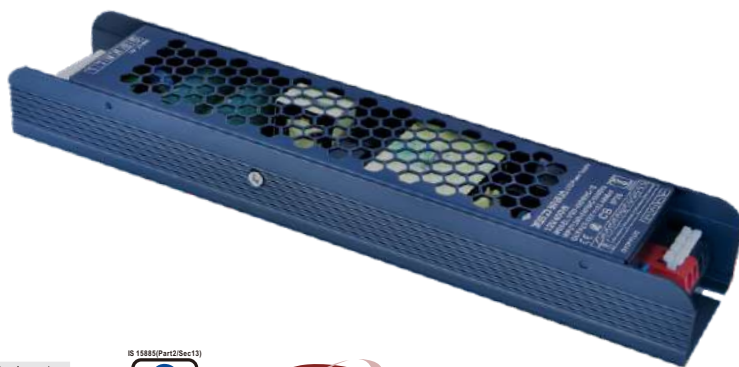
DIMENSION	236x49x29mm(LxWxH)
PACKING	242x53x33mm(LxWxH)
CARTON QUANTITY	30PCS
CARTON SIZE	mm(LxWxH)
WEIGHT	445g±10g/PCS

## Temperature load curve



## LED 开关电源(恒压型)

- 多重保护电路：短路、过电流、过电压、过温度
- 舒缓启动柔光护眼,自带4挡调光模式
- 室内安装设计
- 自然空气冷却
- 100%满负荷老化测试
- 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



CE CB SELV IP20

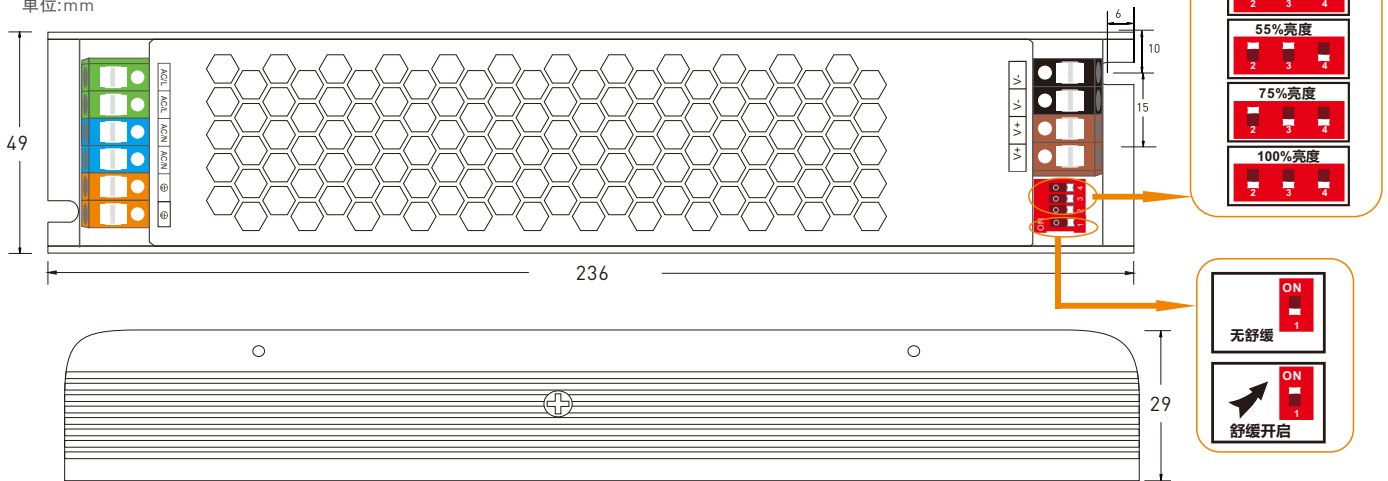


### 技术参数

型号	YSD-400WHC-12	YSD-400WHC-24	YSD-400WHC-36	YSD-400WHC-48	
输出	输出电压	12VDC	24VDC	36VDC	48VDC
	输出电压范围	12VDC±0.5VDC	24VDC±0.5VDC	36VDC±0.5VDC	48VDC±0.5VDC
	输出电流	Max 33.4A	Max 16.7A	Max 11.1A	Max 8.33A
	输出功率	Max 400W			
	输出功率范围	0~400W			
	纹波和噪音	≤150mV	≤200mV	≤250mV	≤300mV
	线性调整率	±1%			
	负载调整率	±1%			
	启动时间	500ms/230VAC 800ms/115VAC			
保持时间	12ms/230VAC 10ms/115VAC				
输入	输入电压	200-240Vac or 110-130Vac			
	频率范围	50/60Hz			
	输入电流	3.3A/230Vac or 6.4A/115Vac			
	功率因素	PF>0.55			
	空载功耗	<0.5W			
	效率(typ.)	92%	93%	94%	95%
	浪涌电流(typ.)	冷启动 70A at 230Vac			
	抗浪涌	L,N:1KV L,N-PE:2KV			
	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, 无冷凝			
	储存温度 湿度	-40°C ~ 80°C, 10~95%RH			
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:3000Vac			
	绝缘阻抗	输入对输出:100MQ/500VDC/25°C/70%RH			
	安全规范	IEC/EN61347;IEC/EN60950;IP20			
	EMC测试标准	EN55015: 2013;EN61547: 2009; EN61000-3-2:2014; EN61000-3-3:2013			
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.				

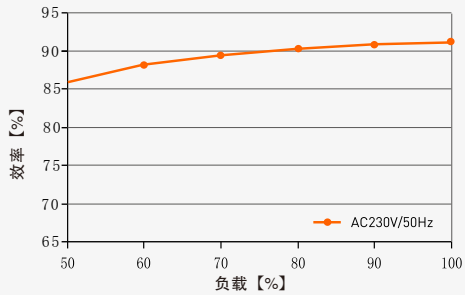
## 尺寸图

单位:mm



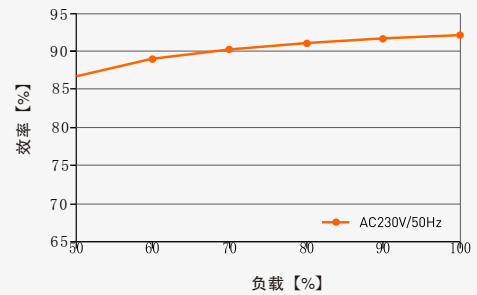
## 关系图表

效率与负载关系图表



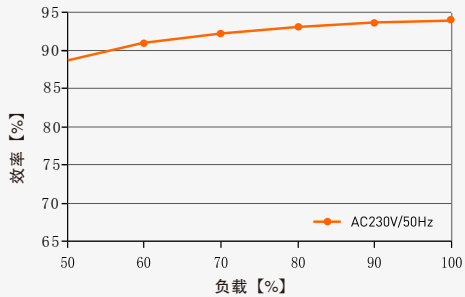
YSD-400WHC-12

效率与负载关系图表



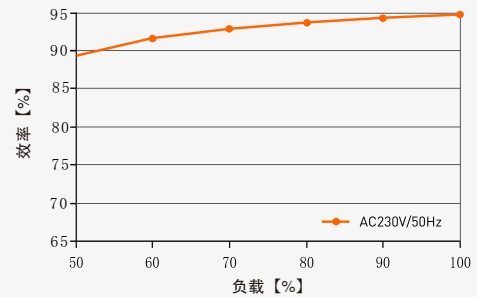
YSD-400WHC-24

效率与负载关系图表



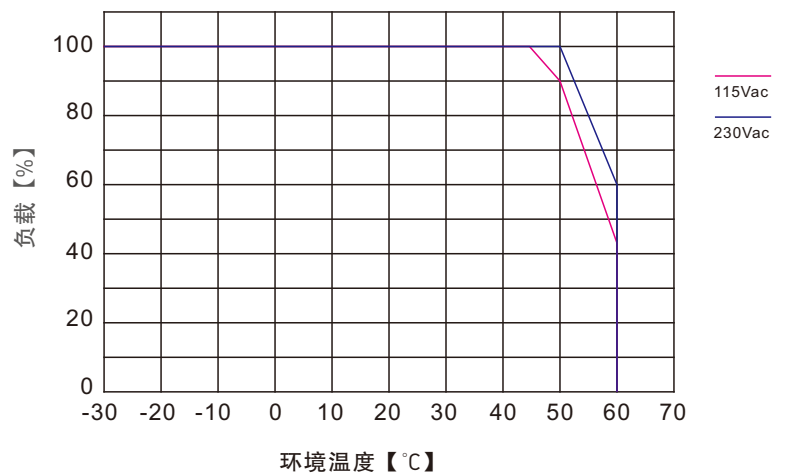
YSD-400WHC-36

效率与负载关系图表



YSD-400WHC-48

## 温度负载曲线



## 包装信息

产品尺寸	236x49x29mm(LxWxH)
包装尺寸	240x50x30mm(LxWxH)
装箱数量	30PCS
外箱尺寸	355x250x175mm(LxWxH)
产品重量	445g±10g/PCS