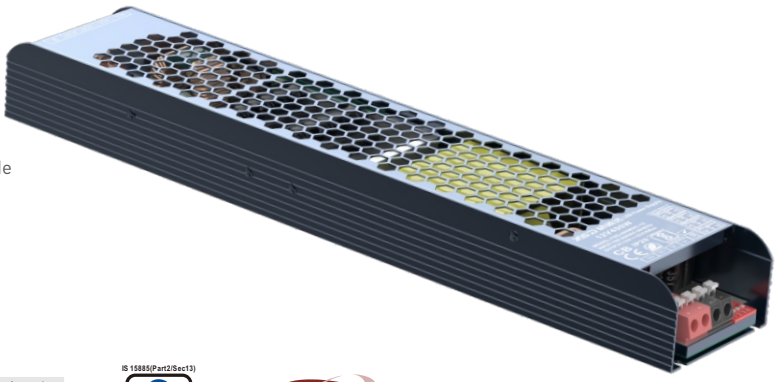
LED Switching Power Supply



- 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, 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.

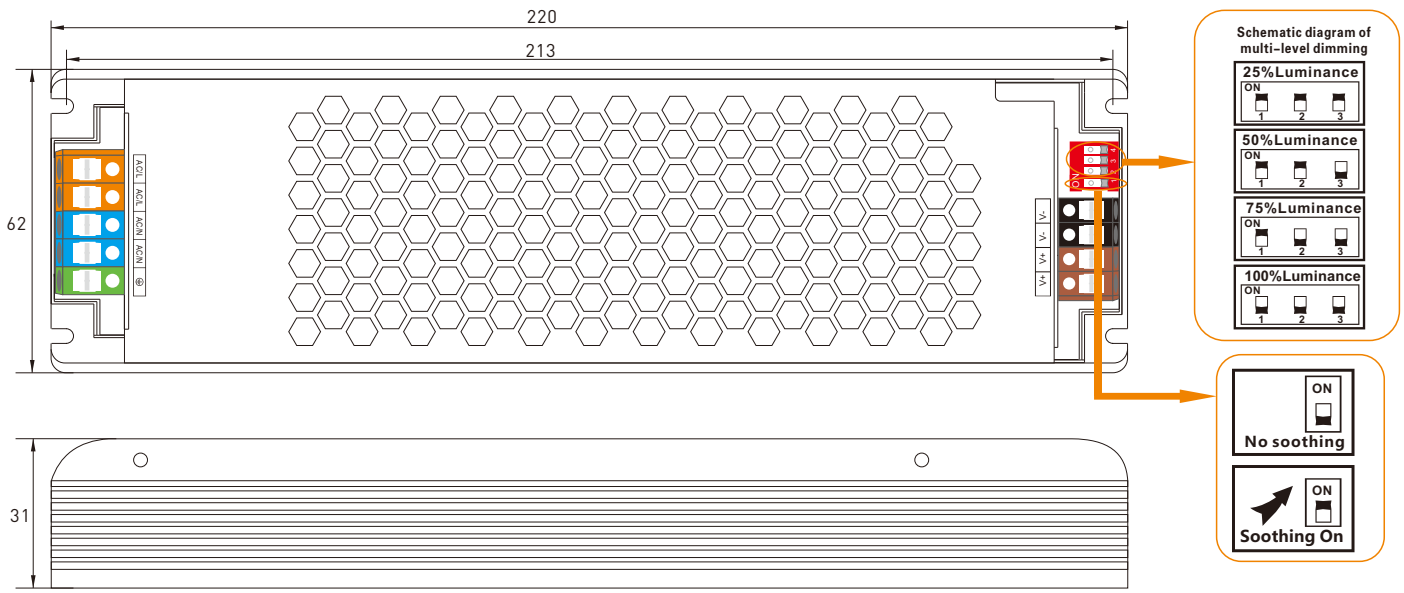
IP20

High Reliability | Over-heat Protection | Short Circuit Protection | Over Load Protection | Over voltage protection

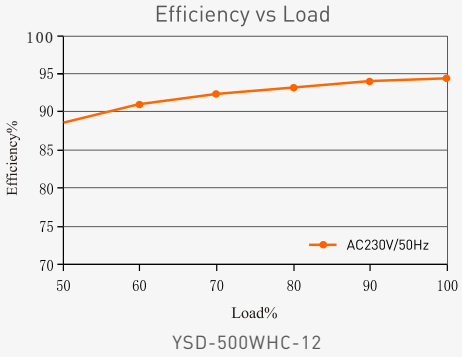
Specification

Model		YSD-500WHC-12	YSD-500WHC-24
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VDC±0.5VDC	24VDC±0.5VDC
	Output current	Max 41.7A	Max 20.8A
	Output power	Max 500W	
	Output power range	0~500W	
	Linear Regulation	±1%	
	Load Regulation	±1%	
	Start-up Time (Typ)	650ms/230VAC	
INPUT	Input voltage	200-240Vac	
	Frequency	50/60Hz	
	Input current	4.2A/230Vac	
	Power factor	PF>0.55	
	No-load power consumption	＜1W	
	Efficiency (typ.)	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	
ENVIRONMENT	Working temperature	ta: -30°C~ 50°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.	
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;IP20	
	EMC Test Standards	EN55015：2013;EN61547：2009; 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. 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.		

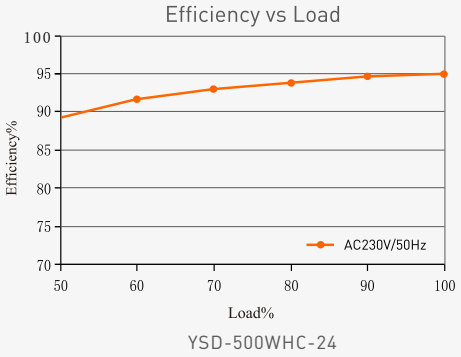
Dimensions
Unit:mm



Relationship diagrams



YSD-500WHC-12



YSD-500WHC-24

Packaging Information

DIMENSION	220x62x31mm(LxWxH)
PACKING	223.5x64x35mm(LxWxH)
CARTON QUANTITY	
CARTON SIZE	
WEIGHT	635g±10g/PCS

Temperature load curve

