YSD 研硕达

LED Ultra-Thin Strip Power Supply(CV&CC)

- CV/CC Output Model
- Active PFC, PF≥0.96,THD≤5%
- Ultra-thin linear size, width only 30mm, suitable for ultra-small space installation
- Full protection insulation plastic shell, no ground wire, fast installation
- Multiple protection circuit: short circuit, over current, over voltage, over temperature
- Widely used in LED panel, LED Strip, advertising sign light-box, home decoration lighting, office lighting, etc
- Passed EMC, anti-interference, anti radiation
- Comply with ERP instruction, standby power consumption < 0.5W
- Comply with EN61347



110-277VAC

PF>0.96

THD≤5%

SELV CE IP20

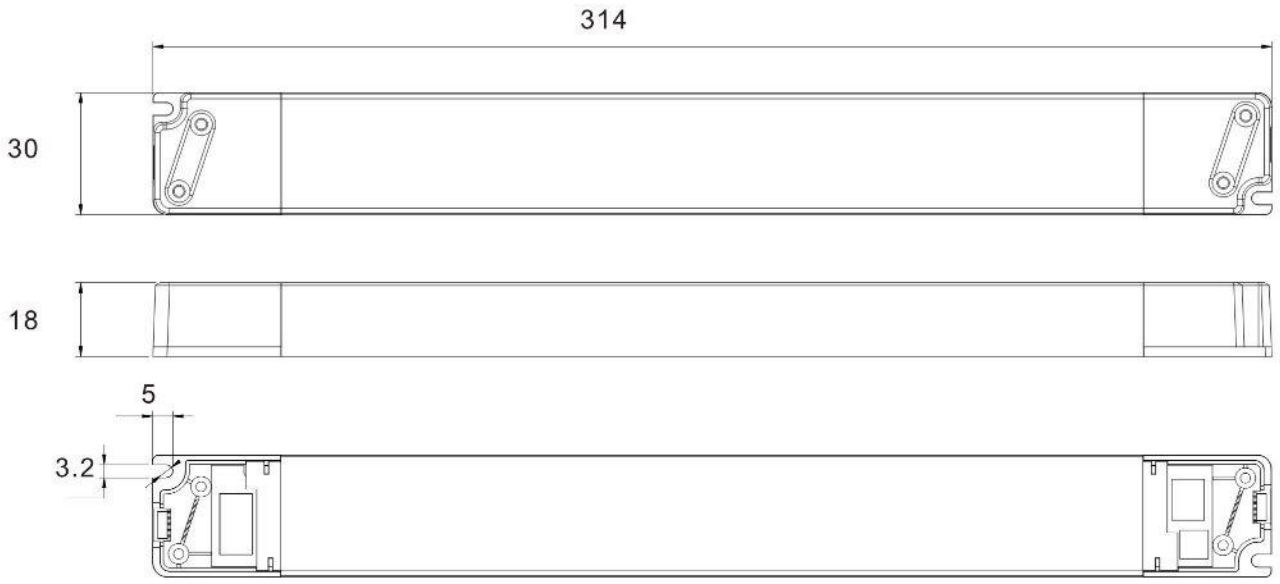
High Reliability | Over-heat Protection | Short Circuit Protection | Over Load Protection | Over voltage protection

Specification

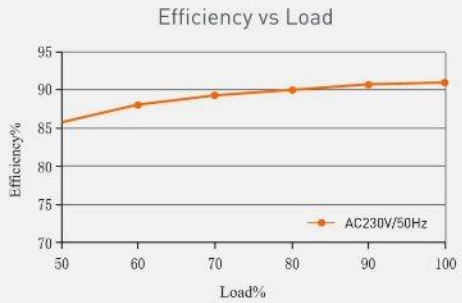
Model		YSD-100WUG-12	YSD-100WUG-24	YSD-100WUG-36	YSD-100WUG-48
OUTPUT	Output voltage	12VDC	24VDC	36VDC	48VDC
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC	24VDC±0.9VDC	48VDC±1.2VDC
	Constant current range	8.0~12V	16.0~24V	24.0~36V	32.0~48V
	Output current	Max 8.3A	Max 4.17A	Max 2.8A	Max2.1A
	Output power	Max 100W			
	Output power range	0~100W			
	Ripple & Noise	≤170mV	≤250mV	≤360mV	≤360mV
	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	110-277Vac			
	Frequency	50/60Hz			
	Input current	1.07A/110VAC , 0.49A/240VAC , 0.43A/277V			
	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.)	91%	91.5%	92%	92%
	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 Max: 80°C			
	Working humidity	20 ~ 95%RH, Non-condensing			
	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 ≥120%~140%, turn off the output,after the abnormality is eliminated, re-energize to recover			
	Over load protection	Load current ≥102%~110%, turn off the output, and automatically recover after the fault is eliminated.			
	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;UL8750;GB19510			
	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

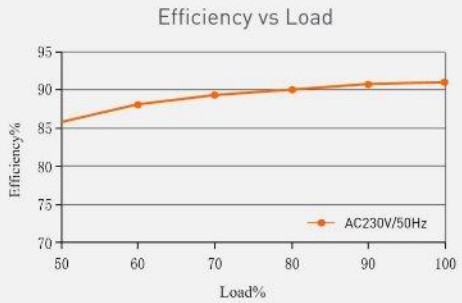
Unit: mm



Relationship diagrams



YSD-100WUG-12

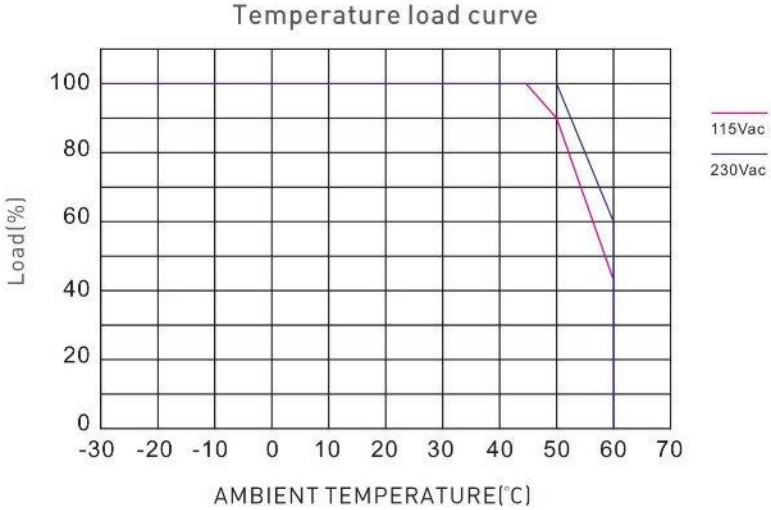


YSD-100WUG-24

Packaging Information

DIMENSION	314x30x18mm(LxWxH)
PACKING	315x32.5x20mm(LxWxH)
CARTON QUANTITY	PCS
CARTON SIZE	(LxWxH)
WEIGHT	275g±10gPCS

Temperature load curve



* No further notice if any changes in the manual. Product function depends on the goods. Please feel free to contact your supplier if any question.