

# OFFICIAL ELECTRONIC

## LED Ultra-Thin Power Supply(C&V)

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- Universal AC input/full range(100-264VAC)
- Built in active PFC function
- 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
- Suitable for internal lights application for I / II / III .
- Up to 50000-hour life time
- Widely used in LED lighting and IT equipment
- Compliance to worldwide safety regulation for led lightings.

100-264VAC

PF>0.96

THD ≤ 10%



Type-Approved  
Safety  
Regular Production  
Surveillance  
www.tuv.com  
0 18122254

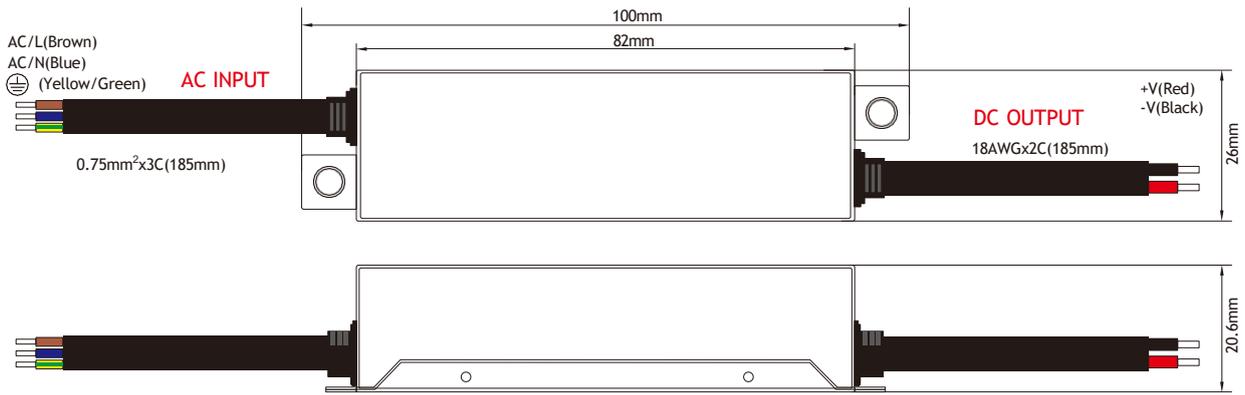


### Specification

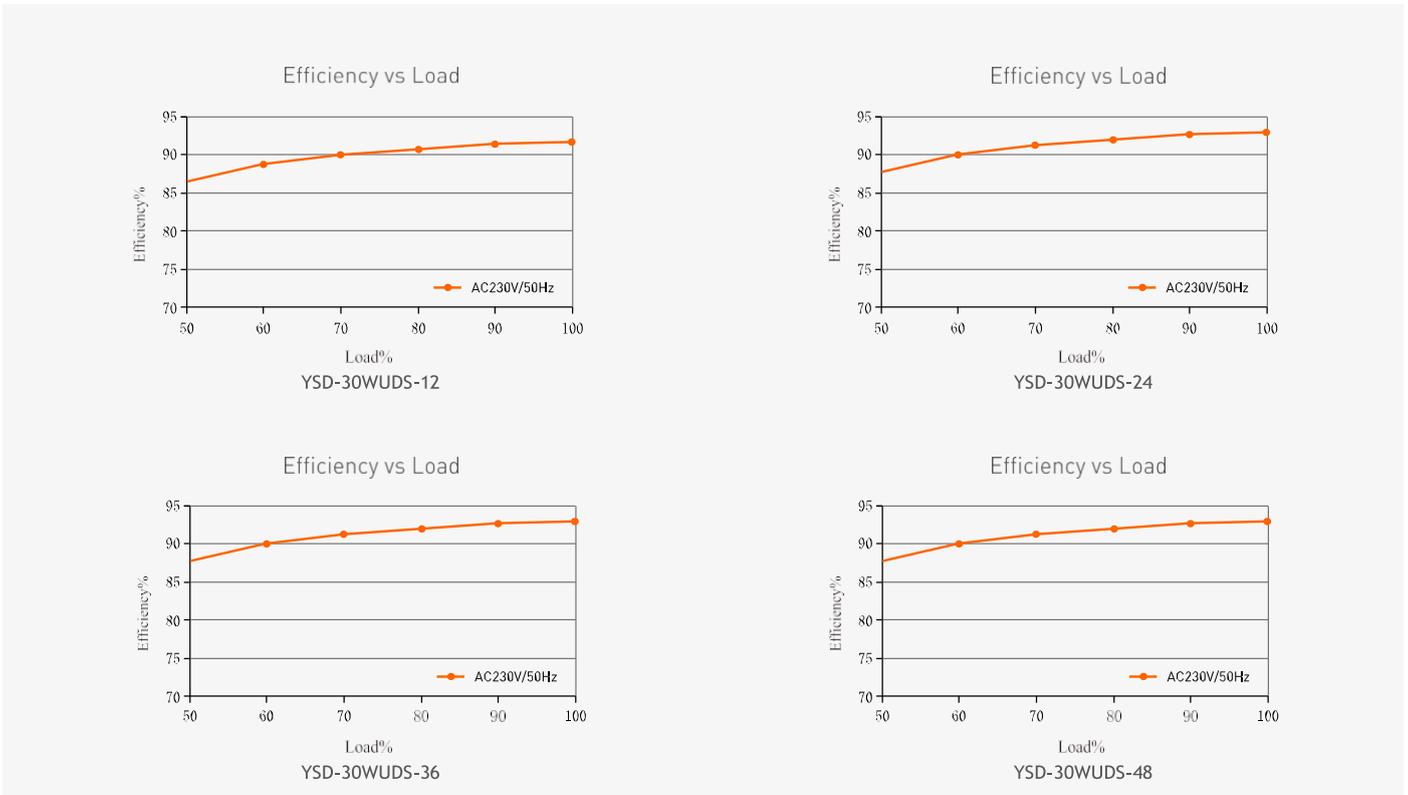
Model	YSD-30WUDS-12	YSD-30WUDS-24	YSD-30WUDS-36	YSD-30WUDS-48	
OUTPUT	Output voltage	12VDC	24VDC	36VDC	48VDC
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC	36VDC±0.9VDC	48VDC±1.2VDC
	Output current	Max 2.5A	Max 1.25A	Max 0.83A	Max 0.625A
	Output power	Max 30W			
	Output power range	0-30W			
	Ripple & Noise	≤150mV	≤240mV	≤360mV	≤360mV
	Linear Regulation	±1%			
	Load Regulation	±1%			
	Start-up Time (Typ)	600ms/230VAC 850ms/115VAC			
	Rise Time(Typ)	11ms/230VAC 11ms/115VAC			
	Hold Up Time(Typ)	19ms/230VAC 10ms/115VAC			
INPUT	Input voltage	100-264Vac			
	Frequency	50/60Hz			
	Input current	0.18A/230Vac or 0.36A/115Vac			
	Power factor	PF>0.96/230Vac, at full load; PF>0.99/115Vac, at full load			
	No-load power consumption	<0.5W			
	THD	≤10% at 230Vac,at full load; ≤8% at 115Vac,at full load			
	Efficiency (typ.)	86%	87%	88%	89%
	Inrush current(typ.)	50A/230VAC			
Control surge capability	L,N:2KV L,N-PE:4KV				
ENVIRONMENT	Leakage current	Max. 0.5mA			
PROTECTION	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.			
SAFETY &	Overtemperature	Protection type: Turn off the output voltage, after the temperature drops, re-energize to restore.			
	Over voltage protection	Output voltage ≥110%-160%, 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.			
EMC	Withstand voltage	I/P-O/P:2500Vac			
	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	<ol style="list-style-type: none"> <li>1. All parameters not specifically mentioned are measured at 230VAC input, rated load and 25 C ambient temperature.</li> <li>2. Ripple and noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth.</li> <li>3. Ensure that the power supply is used under the rated parameters and environment.</li> </ol>				



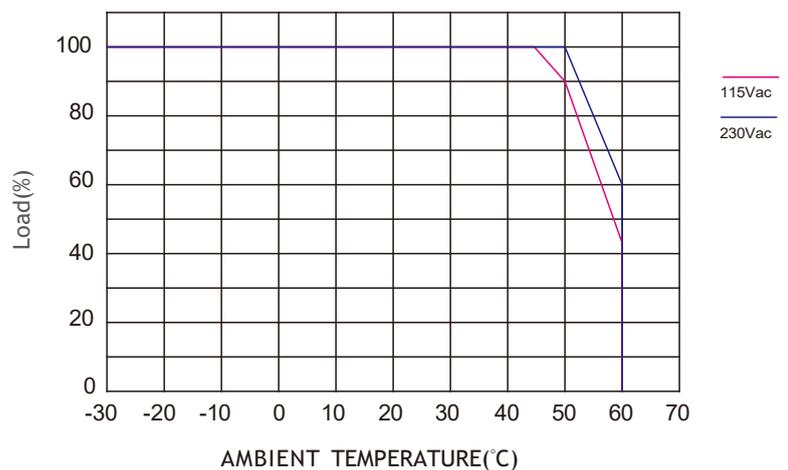
## Dimensions Unit:mm



## Relationship diagrams



## Temperature load curve



## Packaging Information

DIMENSION	100x26x20.6mm(LxWxH)
PACKING	mm(LxWxH)
CARTON QUANTITY	PCS
CARTON SIZE	mm(LxWxH)
WEIGHT	g±10g/PCS