



# UTD-60

## 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.
- Protection: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 1/1/1/1.
- Widely used in LED lighting and IT equipment.
- Compliance to worldwide safety regulation for led lightings.



100-277VAC

PF&gt;0.96

THD≤5%



CE CB SELV IP67



### Specification

Model	UTD-12-60	UTD-24-60	UTD-36-60	UTD-48-60	
<b>OUTPUT</b>	Output voltage	12VDC	24VDC	36VDC	48VDC
	Output voltage range	12VDC±0.3VDC	24VDC±0.4VDC	36VDC±0.5VDC	48VDC±1.2VDC
	Output current	Max 5A	Max 2.5A	Max 1.7A	Max 1.25A
	Output power	Max 60W			
	Output power range	0-60W			
	Ripple & Noise	≤170mV	≤250mV	≤250mV	≤250mV
	Linear Regulation	±1%			
Load Regulation	±1%				
Start-up Time (Typ)	20ms/230VAC	600ms/115VAC			
Rise Time(Typ)	11ms/230VAC	11ms/115VAC			
Hold Up Time(Typ)	15ms/230VAC	15ms/115VAC			
<b>INPUT</b>	Input voltage	100-277VAC			
	Frequency	50/60Hz			
	Input current	1.12-6.43A			
	Power factor	PF>0.96/230VAC, at full load	PF>0.96/115VAC, at full load		
	No-load power consumption	≤0.5W			
	THD	≤8% at 230VAC,at full load	≤8% at 115VAC,at full load		
	Efficiency (typ.)	93%	92.5%	94%	94%
	Inrush current(typ.)	50A/230VAC			
Control surge capability	L,N 2KV L,N-PE 4KV				
Leakage current	Max. 0.5mA				
<b>ENVIRONMENT</b>	Working temperature	tc: -30°C - 50°C	tc: 60°C		
	Working humidity	20 - 95%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.			
<b>PROTECTION</b>	Overtemperature	Protection type: Turn off the output voltage, after the temperature drops, re-energize to restart.			
	Over voltage protection	Output voltage is 1.6-18x, turn off the output, after the abnormality is eliminated, re-energize to recover.	Output voltage is 2.5-3x, 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.			
<b>SAFETY &amp; EMC</b>	Withstand voltage	IP-GIP: 3750VAC			
	Isolation resistance	IP-GIP: 108MQ/500VDC/25°C/70%RH			
	Safety standards	IEC/EN61347/IEC/EN60958/IP67			
	EMC emission	EN55015:2012,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				
<b>Reliability and Quality Control</b>	Impact testing	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 1μF and 10μF 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

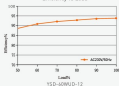
Unit:mm

AC(L/Brown)  
AC(N/Black)  
↓ (Green/Yellow)



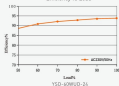
## Relationship diagrams

Efficiency vs Load



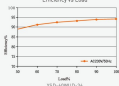
YSD-60WU D-12

Efficiency vs Load



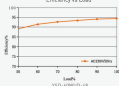
YSD-60WU D-24

Efficiency vs Load



YSD-60WU D-36

Efficiency vs Load



YSD-60WU D-48

## Packaging Information

DIMENSION	202x48x19mm(LxWxH)
PACKING	230x70x24mm(LxWxH)
CARTON QUANTITY	45PCS
CARTON SIZE	390x240x233mm(LxWxH)
WEIGHT	370g±10g/PCS

Temperature load curve

