

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.



CE CB SELV IP67



Specification

Model	UTD-12-300	UTD-24-300	UTD-36-300	UTD-48-300	
OUTPUT	Output voltage	12VDC	24VDC	36VDC	48VDC
	Output voltage range	12VDC±8.3%DC	24VDC±8.4%DC	36VDC±8.4%DC	48VDC±1.2%DC
	Output current	Max 2.5A	Max 12.5A	Max 8.3A	Max 6.25A
	Output power	Max 30W			
	Output power range	0-30W			
	Ripple & Noise	≤250mV	≤250mV	≤250mV	≤250mV
	Linear Regulation	±1%			
	Load Regulation	±1%			
INPUT	Start-up Time (Typ)	400ms/230VAC	800ms/115VAC		
	Rise Time(Typ)	50ms/230VAC	50ms/115VAC		
	Hold Up Time(Typ)	15ms/230VAC	13ms/115VAC		
	Input voltage	100-277Vac			
	Frequency	50/60Hz			
	Input current	3.4-1.3A			
	Power factor	PF>0.96/230Vac, at full load;	PF>0.96/115Vac, at full load		
	No load power consumption	<0.5W			
	THD	≤12% at 230Vac at full load;	≤8% at 115Vac at full load		
	Efficiency (typ.)	93%	93.5%	94%	94%
ENVIRONMENT	Inrush current(typ.)	65A/230VAC			
	Control surge capability	L/N/0V L/N-PE/4KV			
	Leakage current	Max. 0.5mA			
	Working temperature	ta: -38°C - 58°C tc: 80°C			
	Working humidity	20 - 95%RH, condensing/Waterproof			
PROTECTION	Storage temp., humidity	-48°C - 88°C, 10-95%RH			
	Vibration	10-800Hz, 20 12min./1 cycle, period for 72min. each along X, Y, Z axes.			
	Over temperature	Protection type: Turn off the output voltage, after the temperature drops, re-energize to restore.			
	Over voltage protection	Output voltage ±14-18%, turn off the output, after the abnormality is eliminated, re-energize to recover.	Output voltage ±29-35%, turn off the output, after the abnormality is eliminated, re-energize to recover		
SAFETY & EMC	Over load protection	Shut down the output when current load ≥118%-150%, auto recovers.			
	Short circuit protection	Protection type: It can be automatically restored after the fault is eliminated.			
	Withstand voltage	IP-GIP: 3050Vase			
	Isolation resistance	IP-GIP: 100MΩ/500VDC/25°C/70%RH			
Reliability and Quality Control	Safety standards	IEC/EN61347/IEC/EN60950/IP67			
	EMC emission	EN55015:2013/FCC Part 15B, EN1547:2009/EN61000-3-2:2014, EN1000-3-3:2013			
	EMC immunity	EN1000-4-2, 3, 4, 5, 6, 8, 11 EN1547			
NOTE	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			

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

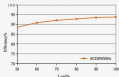
Dimensions

Unit:mm



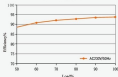
Relationship diagrams

Efficiency vs Load



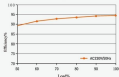
UTD-12-300

Efficiency vs Load



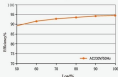
UTD-24-300

Efficiency vs Load



UTD-36-300

Efficiency vs Load



UTD-48-300

Packaging Information

DIMENSION	282x86x23.5mm(LxWxH)
PACKING	334x118x300mm(LxWxH)
CARTON QUANTITY	10PCS
CARTON SIZE	345x343x175mm(LxWxH)
WEIGHT	1250g±10g/PCS

Temperature load curve

