

5 in 1 dimming 0-10V 1-10V 10V PWM TRIAC DIM Resistance DIM

**100–277V Dimming** 

PF>0.95

**THD<10%** 

Flicker-free

IEEE 1789 High frequency exemption level

## 300W-12V/24V LED Intelligent Switch Driver (CV)

- TRIAC/ 0-10V/1-10V/10V PWM/RESISTANCE DIM
- With soft-on and fade in function, visual more comfortable.
- Dimming range: 0~100%, LED start at 1% possible.
- 0-100% flicker-free, High frequency exemption level.
- High Efficient driver: efficiency 90%, PF>0.95, THD<10%
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.

Triac/

Resistance

DIM

- Suitable for internal lights application for  $\[I/II/III$ .
- Up to 50000-hour life time.





PWM











# Specification Specification

0-10V

1-10V

Model		YSD-300WUGP-12TL	YSD-300WUGP-24TL
оитрит	Output voltage	12VDC	24VDC
	Output voltage range	12VDC±0.5VDC	24VDC±0.5VDC
	Output current	Max 25A	Max 12.5A
	Output power	Max 300W	
	Output power range	0~300W	
	With or without strobe	No strobe	
	Dimming range	0~100%, dimming depth: Max. 1%	
	Ripple & Noise	≤200mV	≤400mV
	PWM frequency	3500Hz	
INPUT	Dimming interface	TRIAC/ 0-10V/1-10V/10V PWM/RESISTANCE DIM	
	Input voltage	100-277Vac	
	Frequency	50/60Hz	
	Input current	3.54~1.28A	
	Power factor	PF>0.95/230Vac, at full load	
	THD	≤10% at 230Vac, at full load	
	Efficiency (typ.)	90%	91%
	Inrush current(typ.)	Cold start 60A	
	Control surge capability	L-N:2KV	
	Leakage current	Max. 0.5mA	
ENVIRONMENT	Working temperature	ta: -30°C ~50°C tc: 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:Shut down o/p voltage,repower on to recove	er
	Over voltage protection	Shut down the output when non-load voltage≥13V, re-power on to recover after fault condition is removed	Shut down the output when non-load voltage≥26V, I. re-power on to recover after fault condition is removed
	Over load protection	Shut down the output when current load ≥110%, auto recovers.	
	Short circuit protection	Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovered; 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the fault is eliminated	
SAFETY & EMC	Withstand voltage	I/P-0/P: 3750Vac	
	Isolation resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH	
	Safety standards	IEC/EN61347-1, IEC/EN61347-2-13	
	EMC emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	EMC immunity	EN61000-4-2,3,4,5,6,8,11 EN61547	
	Strobe test standard	IEEE 1789	



## 300W-12V/24V LED Intelligent Switch Driver (CV)

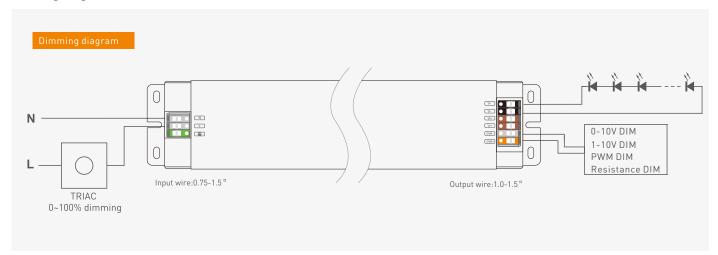


Dimensions Unit:mm

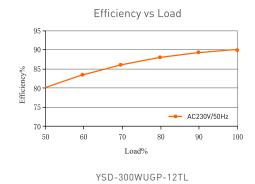




#### Wiring diagram



#### Relationship diagrams





YSD-300WUGP-24TL

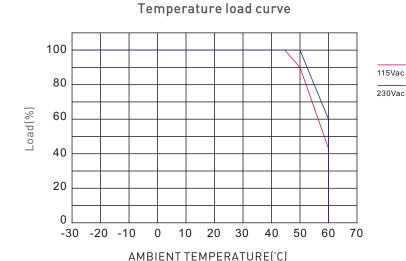


### 300W-12V/24V LED Intelligent Switch Driver (CV)



#### **Packaging Information**

DIMENSION	290x66x25mm(LxWxH)
PACKING	292x71x28mm(LxWxH)
CARTON QUANTITY	
CARTON SIZE	
WEIGHT	900g±10gPCS



#### Flicker Test Form

