

## 200W-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.
- Suitable for internal lights application for I / II / III.
- Up to 50000-hour life time.



100~277V Dimming

PF>0.95

THD<10%

Flicker-free

IEEE 1789  
High frequency exemption level



### Specification

Model		YSD-200WUGP-12TL	YSD-200WUGP-24TL
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VD±0.5VDC	24VDC±0.5VDC
	Output current	Max 16.7A	Max 8.4A
	Output power	Max 200W	
	Output power range	0~200W	
	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	2.36~0.85A	
	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, re--power on to recover	
	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, 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-O/P: 3750Vac	
	Isolation resistance	I/P-O/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	

# YSD 研硕达 200W-12V/24V LED Intelligent Switch Driver (CV)

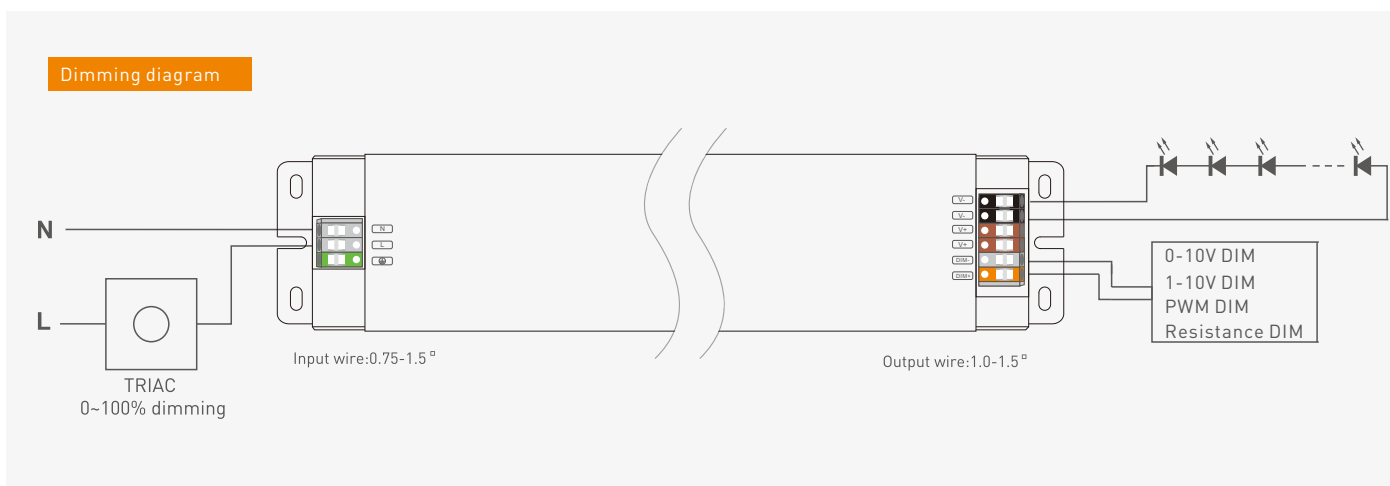
5 in 1 dimming  
0-10V  
1-10V  
10V PWM  
TRIAC DIM  
Resistance DIM

## Dimensions

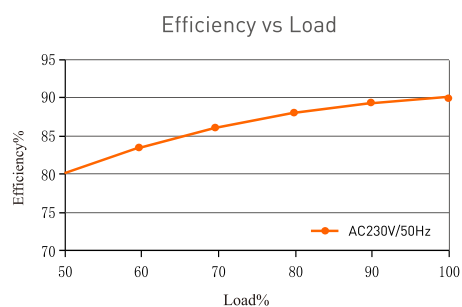
Unit:mm



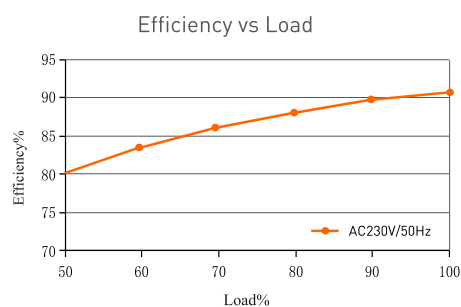
## Wiring diagram



## Relationship diagrams



YSD-200WUGP-12TL

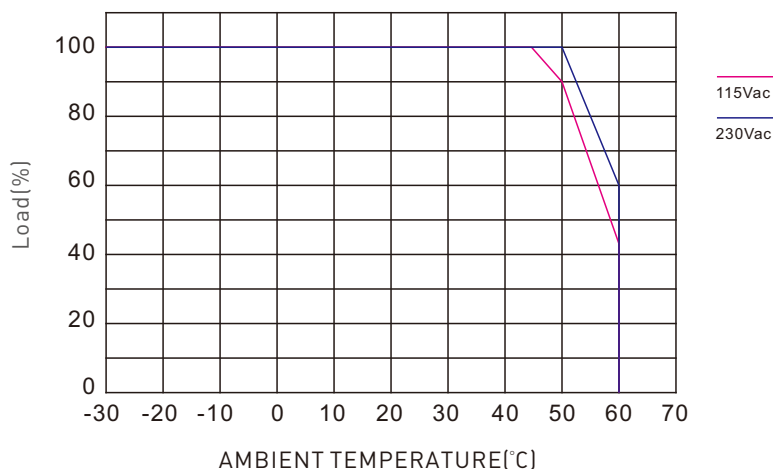


YSD-200WUGP-24TL

## Packaging Information

DIMENSION	270x60x25mm(LxWxH)
PACKING	272x65x28mm(LxWxH)
CARTON QUANTITY	
CARTON SIZE	
WEIGHT	750g±10gPCS

### Temperature load curve



## Flicker Test Form

### IEEE 1789

Limit of Modulation in low risk area	
Waveform frequency of Optical output	limit (%)
$f \leq 8\text{Hz}$	0.2
$8\text{Hz} < f \leq 90\text{Hz}$	$0.025 \times f$
$90\text{Hz} < f \leq 1250\text{Hz}$	$0.08 \times f$
$f > 1250\text{Hz}$	Exemption assessment
Limit of Modulation in no effect area	
Waveform frequency of Optical output	limit (%)
$f \leq 10\text{Hz}$	0.1
$10\text{Hz} < f \leq 90\text{Hz}$	$0.01 \times f$
$90\text{Hz} < f \leq 3125\text{Hz}$	$[0.08/2.5] \times f$
$f > 3125\text{Hz}$	Exemption assessment (High frequency exemption)

Brightness

- 1%
- 5%
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 70%
- 80%
- 90%
- 100%

Exemption assessment  
(High frequency exemption)



IEEE 1789

