₩5つ 研硕达

100W-12V/24V LED Intelligent Dimmable Waterproof 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 $\, \mathrm{I} \, / \, \mathrm{I\hspace{-.05cm}I} \, .$.
- Up to 50000-hour life time.





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LISTED E498189

Digital Dimmin

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Specification

Model		YSD-100WUGF-12TL	YSD-100WUGF-24TL		
OUTPUT	Output voltage	12VDC	24VDC		
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC		
	Output current	Max 8.3A	Max 4.17A		
	Output power	Max 100W			
	Output power range	0~100W			
	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	1.17~0.42A			
	Power factor	PF>0.95/230Vac, at full load			
INFUT	THD	≤10% at 230Vac, at full load			
	Efficiency (typ.)	90%	91%		
	Inrush current(typ.)	Cold start 50A at 230Vac			
	Control surge capability	L-N:2KV			
	Leakage current	Max. 0.5mA			
	Working temperature	ta:-30°C ~50°C tc:80°C			
ENVIRONMENT	Working humidity	20 ~ 95%RH, non-condensing			
ENVIRONMENT	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 recover			
	Over voltage protection	Shut down the output when non-load voltage≥13V, re-power on to recover after fault condition is remov			
	Over load protection	Shut down the output when current load \geq 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			



dimming

100–277V Dimming

IEEE 1789 High frequency exemption level

1-10V 10V PWM TRIAC DIM Resistance DIM

PF>0.95

THD<10%

Flicker-free

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V

Over voltag

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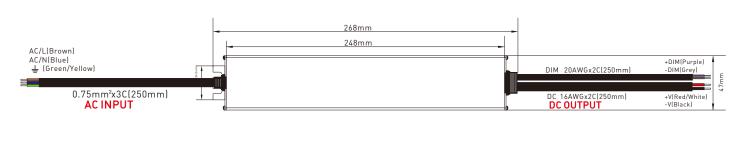
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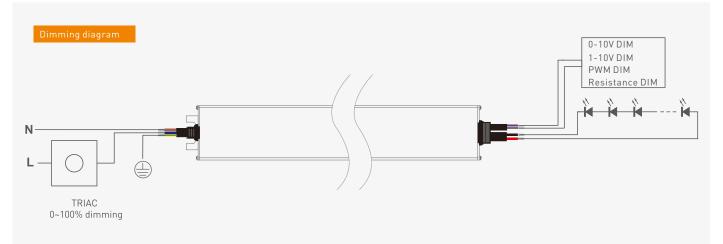


Dimensions Unit:mm





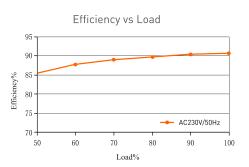
Wiring diagram



Relationship diagrams



YSD-100WUGF-12TL



YSD-100WUGF-24TL

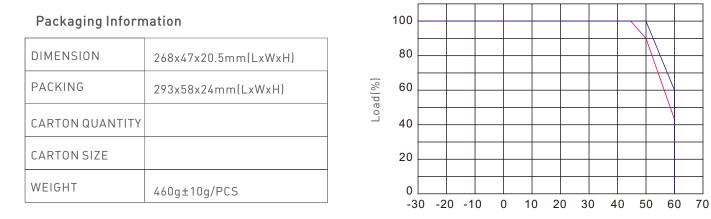


5 in 1 dimming 0-10V 1-10V 10V PWM TRIAC DIM Resistance DIM

115Vac

230Vac

Temperature load curve



AMBIENT TEMPERATURE(°C)

Flicker Test Form

Brightness	100%		IEEE 1789	Exemption assessment (High frequency exemption)
 ↓ 1% ↓ 5% ↓ 10% ↓ 20% ↓ 30% ↓ 40% ↓ 50% ♦ 60% ↓ 70% ♦ 80% 	Modulation(%) %01	High Risk		
 > 90% ◆ 100% 	₩ 1% 0. 1%	Low Risk(yellow)		No Effect(green)
	1	10	100 Frequency(Hz)	1000 3500Hz 10000

IEEE 1789							
Limit of Modulation in low risk area							
Waveform frequency of Optical output	limit (%)						
$f \leq 8Hz$	0.2						
$8Hz < f \leq 90Hz$	0.025 × f						
90Hz < <i>f</i> ≤ 1250Hz	$0.08 \times f$						
f > 1250Hz	Exemption assessment						
Limit of Modulation in no effect area							
Waveform frequency of Optical output	limit (%)						
$f \leq 10$ Hz	0.1						
10Hz < f ≤ 90Hz	0.01 × f						
90Hz < <i>f</i> ≤ 3125Hz	$(0.08/2.5) \times f$						
f > 3125Hz	Exemption assessment (High frequency exemption)						