

LED Intelligent 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 $\ensuremath{\mathbb{I}} \ / \ensuremath{\mathbb{I}} \ / \ensuremath{\mathbb{I}} \ .$
- Up to 50000-hour life time.









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

PF>0.95

THD<10%

Flicker-free

100-277V Dimming

IEEE 1789 High frequency exemption level















Specification

PROTECTION Over load protection re-power on to recover after fault condition is removed. re-power on to recover after fault condition is over load protection Shut down the output when current load ≥110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers.	Model		YSD-300WUGP-12TL	YSD-300WUGP-24TL	
OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT OUTPUT PWIND A SOUND OUTPUT OUTPUT OUTPUT OUTPUT PWIND A SOUND With or without strobe Dimming range O-100%, dimming depth: Max. 1% Ripple & Noise \$\frac{200\text{mV}}{200\text{mV}}\$ \$\frac{400\text{mV}}{400\text{mV}}\$ PWM frequency \$\frac{3500\text{Hz}}{200\text{mV}}\$ \$\frac{400\text{mV}}{200\text{mV}}\$ PWM frequency \$\frac{100\text{mV}}{2500\text{mV}}\$ \$\frac{400\text{mV}}{200\text{mV}}\$ Input voltage Input voltage Input current \$\frac{3.5\text{-1.28A}}{3.5\text{-1.28A}}\$ Power factor PF>0.95/230Vac, at full load THD \$\frac{100\text{at 230Vac}}{210\text{at 230Vac}}\$ \$\frac{91\text{mV}}{210\text{must}}\$ ENVIRONMENT ENVIRONMENT ENVIRONMENT Working temperature \text{Max. 0.5mA} \text{Working temperature} \text{Max. 0.5mA} \text{Working humidity} \text{20 - 95\text{RH}} \text{Vibration} \text{10-500Hz, 26 12min/1cycle, period for 72min. each along X, Y, Z axes.} Over voltage protection Shut down the output when non-load voltage \text{? re-power on to recover}} Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically rec 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		Output voltage	12VDC	24VDC	
Output power	ОИТРИТ	Output voltage range	12VDC±0.5VDC	24VDC±0.5VDC	
Output power range 0-300W With or without strobe No strobe Dimming range 0-100%, dimming depth: Max. 1% Ripple & Noise ≤200mV PWM frequency 3500Hz 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 Working temperature ta-30°C ~50°C tc: 80°C Working humidity 20 ~95%RH, non-condensing Storage temp., humidity 20 ~95%RH, non-condensing Vibration 10-500Hz, 26 12min./1 tcycle, period for 72min. each along X, Y, Z axes. Over temperature Protection Vibracy of the output when non-load voltage ≥ 13V, re-power on to recover serve over on to recover shout down the output when non-load voltage ≥ 13V, re-power on to recover serve over serve over on to recover serve over serve over serve feature output when non-load voltage ≥ 13V, re-power on to recover serve over serve over serve feature output when non-load voltage ≥ 15 but down the output when non-load voltage ≥ 13V, re-power on to recover after fault condition is re-power on to recover serve feature output when non-load voltage ≥ 100-200 protection Shut down the output when current load ≥ 110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers.		Output current	Max 25A	Max 12.5A	
With or without strobe Dimming range Dimming range 0-100%, dimming depth: Max. 1% Ripple & Noise 200mV PWM frequency 3500Hz Dimming interface Input voltage Input voltage Input voltage Input current 3.54-1.28A Power factor THAC / 0-10V/1-10V/10V PWM/RESISTANCE DIM Input current 3.54-1.28A Power factor PF-0.95/230Vac, at full load Efficiency (typ.) Inrush current(typ.) Cold start 60A Control surge capability L-N:2KV Leakage current Max. 0.5mA Working temperature Working temperature 10-2-95%RH, non-condensing Storage temp., humidity 20-95%RH, non-condensing Storage temp., humidity -40°C ~ 80°C, 10-95%RH Vibration 10-500Hz, 26 12min./1cycle, period for 72min. each along X, Y, Z axes. PROTECTION Over lotad protection Shut down the output when non-load voltage > 13V, re-power on to recover after fault condition is removed. Protection type: Shut down current load > 110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers after the power needs to be turned on again after the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit prote		Output power	Max 300W		
Dimming range		Output power range	0~300W		
Ripple & Noise \$\(\) \\ \(\)		With or without strobe	No strobe		
PWM frequency 3500Hz Dimming interface		Dimming range	0~100%, dimming depth: Max. 1%		
Dimming interface		Ripple & Noise	≤200mV	≤400mV	
INPUT I		PWM frequency	3500Hz		
INPUT Frequency		Dimming interface	TRIAC/0-10V/1-10V/10V PWM/RESISTANCE DIM		
INPUT Input current 3.54~1.28A		Input voltage	100-277Vac		
Power factor		Frequency	50/60Hz		
THD \$\leq\$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 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. Overtemperature Protection type:Shut down o/p voltage,repower on to recover Shut down the output when non-load voltage > 13V, re-power on to recover after fault condition is removed. PROTECTION PROTECTION Short circuit protection Shut down the output when current load >110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovered. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		Input current	3.54~1.28A		
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 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 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 removed. re-power on to recover after fault condition is removed. Shut down the output when non-load voltage > 100 certain type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered, the power needs to be turned on again after the storage recover after fault condition is triggered.	INDIIT	Power factor	PF>0.95/230Vac, at full load		
Inrush current(typ.) Cold start 60A Control surge capability L-N:2KV Leakage current Max. 0.5mA 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. 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 removed. Protection type: Shut down the output when current load > 110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovered. Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the	INFO	THD			
Control surge capability L-N:2KV Leakage current Max. 0.5mA 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. 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 removed. re-power on to recover after fault condition is semoved. Shut down the output when current load ≥110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recover after fault cond-level short-circuit protection is triggered, the power needs to be turned on again after the		Efficiency (typ.)	90%	91%	
Leakage current Max. 0.5mA 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. Overtemperature Protection type:Shut down o/p voltage,repower on to recover Shut down the output when non-load voltage≥13V, re-power on to recover after fault condition is removed. re-power on to recover after fault condition is semoved. 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 ≥ 13V, re-power on to recover after fault condition is removed. Protection Shut down the output when current load ≥ 110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers. 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered, the power needs to be turned on again after the second-level short-circuit protection is triggered.		Inrush current(typ.)	Cold start 60A		
## Working temperature		Control surge capability	L-N:2KV		
ENVIRONMENT 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. 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 removed. Protection type: Shut down the output when non-load voltage≥ re-power on to recover after fault condition is removed. Protection Shut down the output when current load ≥110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers. 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the power needs to be turned on again af		Leakage current	Max. 0.5mA		
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. Overtemperature Protection type:Shut down o/p voltage,repower on to recover Shut down the output when non-load voltage > 13V, re-power on to recover after fault condition is removed. re-power on to recover after fault condition is removed. Over load protection Shut down the output when current load > 110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers. Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		Working temperature	ta: -30°C ~50°C tc: 80°C		
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Overtemperature Over voltage protection PROTECTION Over load protection Shut down the output when non-load voltage ≥ 13V, re-power on to recover after fault condition is removed. Over load protection Over load protection Shut down the output when non-load voltage ≥ 13V, re-power on to recover after fault condition is removed. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers. Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		Storage temp., humidity	-40°C ~ 80°C, 10~95%RH		
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PROTECTION Over load protection Over load protection Shut down the output when current load ≥110%, auto recovers. Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovers. Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the	PROTECTION	Overtemperature	Protection type:Shut down o/p voltage,repower on to recover		
Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically rec Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		Over voltage protection		Shut down the output when non-load voltage≥26V, re-power on to recover after fault condition is removed	
Short circuit protection 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the		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		
Withstand voltage I/P-0/P: 3750Vac	SAFETY & EMC	Withstand voltage	I/P-0/P: 3750Vac		
Isolation resistance I/P-0/P: 100MΩ/500VDC/25°C/70%RH		Isolation resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH		
SAFETY & Safety standards IEC/EN61347-1, IEC/EN61347-2-13		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		EMC immunity	EN61000-4-2,3,4,5,6,8,11 EN61547		
Strobe test standard IEEE 1789		Strobe test standard	IEEE 1789		



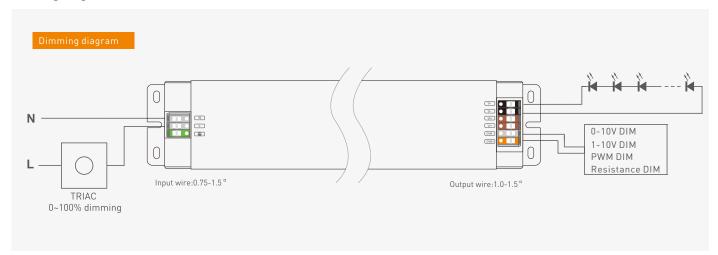


Dimensions Unit:mm

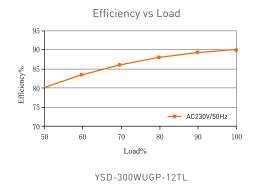




Wiring diagram



Relationship diagrams





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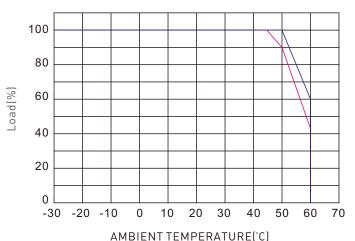
115Vac

230Vac

Packaging Information

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

Temperature load curve



Flicker Test Form

