

DALI
Push DIM/CCT

PF>0.96

THD<10%

LED Intelligent CT Driver (CV)

- DALI-2 DT6/DT8, DIM and color temperature adjusting driver
- Dimming range: 0~100%, LED start at 0.1% possible.
- Color temperature adjusting range: 2700-6500K
- 2 independently SELV constant voltage output channels
- High Efficient driver: efficiency:92%, PF>0.96, THD<10%
- 0-100% flicker-free, High frequency exemption level.
- Dimming interfaces: DALI-2 DT6/DT8
- In line with the EU energy efficiency ERP directive, standby power consumption < 0.5W
- Constant power design, adjust different color temperature to keep the same brightness.
- 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.

Dimmable:
0.1% - 100%



DIM/CT



Flicker-free
IEEE 1789
High frequency exemption level



SELV IP67



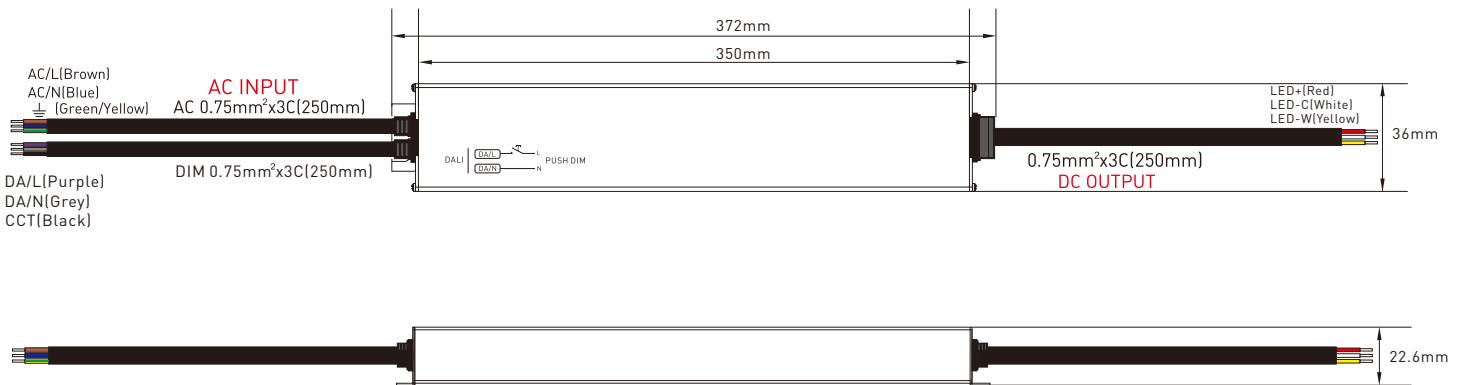
Specification

Model	YSD-250WUDF-12S		YSD-250WUDF-24S	
OUTPUT	Output voltage	12VDC	24VDC	
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC	
	Output current	Max 21A	Max 10.5A	
	Output power	Max 250W		
	Output power range	0~250W		
	With or without strobe	No strobe		
	Dimming range	0~100%, dimming depth: Max. 0.1%		
	Ripple & Noise	≤150mV	≤240mV	
	DALI frequency	4000Hz		
INPUT	Dimming interface	DALI-2 DT6 /DT8		
	Input voltage	100-264Vac		
	Frequency	50/60Hz		
	Input current	3~1A		
	Power factor	PF>0.96/230Vac, at full load		
	THD	≤10% at 230Vac, at full load		
	Efficiency (typ.)	92%	93%	
	Standby Power Loss	<0.5W		
	Inrush current(typ.)	Cold start 60A at 230Vac		
	Control surge capability	L-N:2KV		
Leakage current	Max. 0.5mA			
ENVIRONMENT	Working temperature	ta: -25°C ~ 50°C tc: 90°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 ≥16V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage ≥28V, 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	When the short-circuit protection is triggered,It can be automatically restored after the fault is eliminated.		
SAFETY & EMC	Withstand voltage	I/P-O/P: 3750Vac		
	Isolation resistance	I/P-O/P: 100MQ/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		

SUPERLIGHTINGLED

Dimensions

Unit: mm

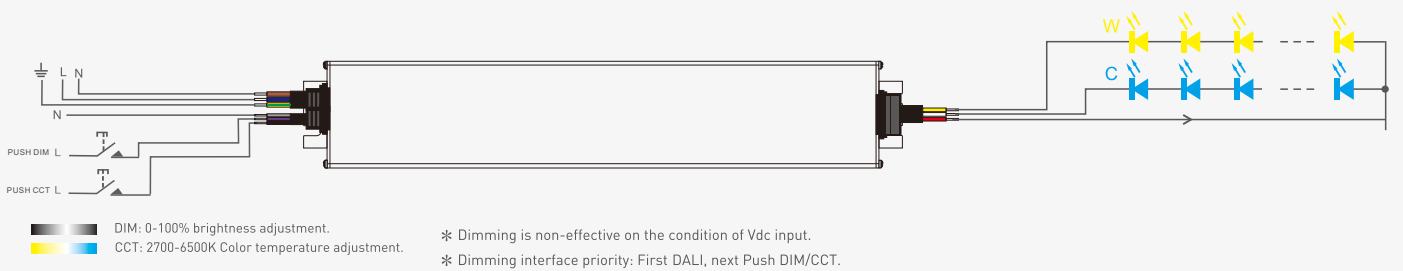


Wiring diagram

DALI Connection



Push DALI/CCT Connection



Push DIM



On/off control: Short press
 Stepless dimming: Long press
 With every other long press, the brightness level goes to the opposite direction.
 Dimming memory: Go to the brightness level adjusted previously when lights are turned on.

Reset switch

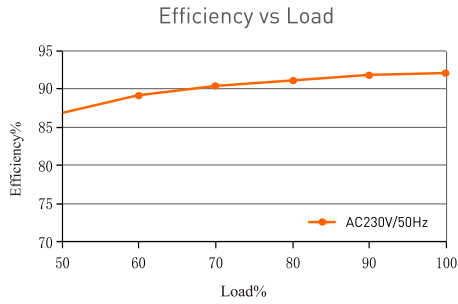
Push CCT



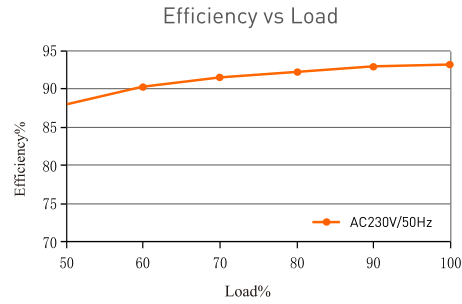
Shift switch color temperature: short press
 Stepless Tinting: Long Press
 Every other long press, the color temperature will be adjusted in the opposite direction
 Color Memory: When PushDIM briefly presses the switch, the light returns to its previously adjusted brightness and color temperature.

Reset switch

Relationship diagrams



YSD-250WUDF-12S

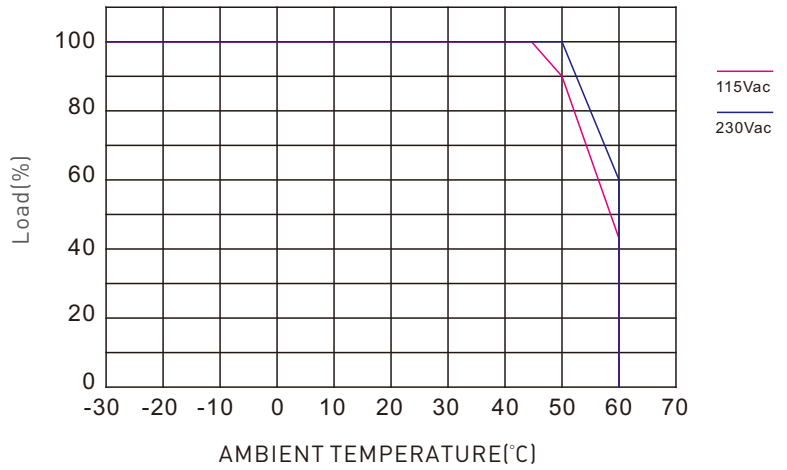


YSD-250WUDF-24S

Packaging Information

DIMENSION	372x36x22.6mm(LxWxH)
PACKING	mm(LxWxH)
CARTON QUANTITY	PCS
CARTON SIZE	mm(LxWxH)
WEIGHT	670g±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)

