SUPERLIGHTINGLED

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 Efficicient driver: 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

CE RoHS IS 15885(Part2)Sec13)

SELV IP67

DALI Push DIM | PWM | 0.1% Depth Dimming | Over-heat Protection | Short Circuit Protection | Over Load Protection | V Over voltage protection

Specification

Model		YSD-60WUDF-12S	YSD-60WUDF-24S
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC
	Output current	Max 5A	Max 2.5A
	Output power	Max 60W	
	Output power range	0~60W	
	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	0.72~0.26A	
	Power factor	PF>0.96/230Vac, at full load	
	THD	≤10% at 230Vac, at full load	
	Efficiency (typ.)	88%	89%
	Standby Power Loss	<0.5W	
	Inrush current(typ.)	Cold start 50A at 230Vac	
	Control surge capability	L-N:2KV	
	Leakage current	Max. 0.5mA	
ENVIRONMENT	Working temperature	ta: -25℃ ~ 50℃ tc: 90℃	
	Working humidity	20 ~ 95%RH, non-condensing	
	Storage temp., humidity	-40℃ ~ 80℃, 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: 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	

Dimensions

Unit: mm

AC/L(Brown)
AC/N(Blue)
(Green/Yellow)

AC INPUT
AC 0.75mm²x3C(250mm)

287mm
265mm

LED+(Red)
LED-C(White)
LED-W(Yellow)

35mm

DA/L(Purple)
DA/N(Grey)
CCT(Black)

DIM 0.75mm²x3C(250mm)

DALI | DA/L | L PUSH DIM
      | DA/N | N

0.75mm²x3C(250mm)
DC OUTPUT

18mm

Wiring diagram

DALI Connection

N
L

DALI

W
C

DIM: 0-100% brightness adjustment.
CCT: 2700-6500K color temperature adjustment.

Push DALI/CCT Connection

L N
N

PUSH DIM L

PUSH CCT L

W
C

DIM: 0-100% brightness adjustment.
CCT: 2700-6500K Color temperature adjustment.

✳ Dimming is non-effective on the condition of Vdc input.
✳ Dimming interface priority: First DALI, next Push DIM/CCT.
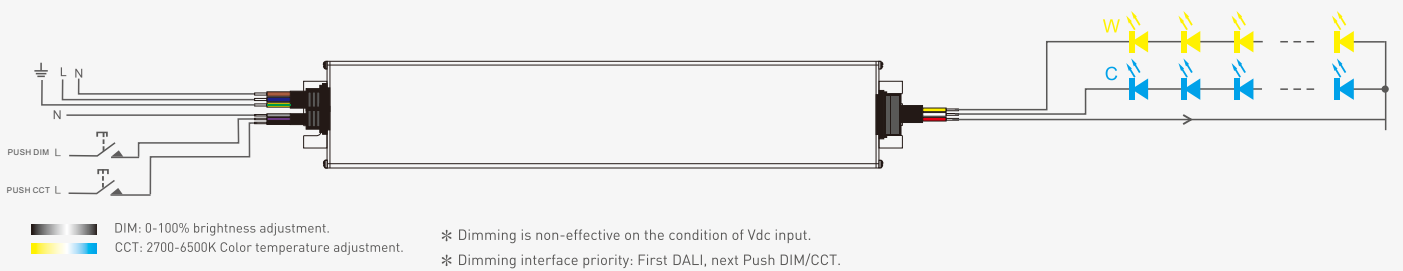
Push DIM

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.
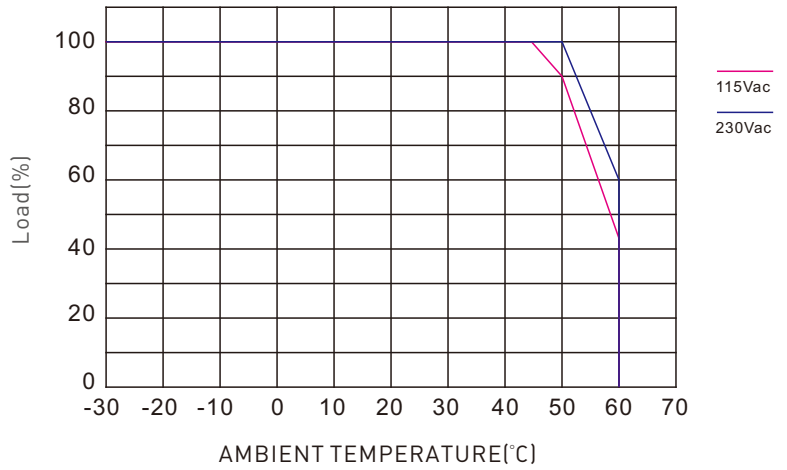
Reset switch

Relationship diagrams

Efficiency vs Load

YSD-60WUDF-12S

Efficiency vs Load
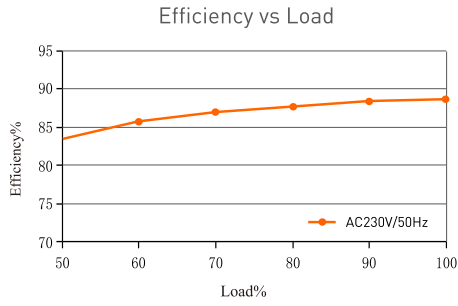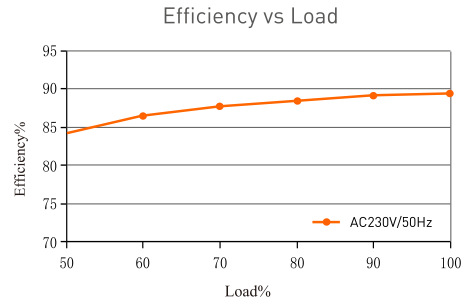
YSD-60WUDF-24S

Packaging Information

DIMENSION	287x35x18mm(LxWxH)
PACKING	mm(LxWxH)
CARTON QUANTITY	PCS
CARTON SIZE	mm(LxWxH)
WEIGHT	g±10gPCS

Temperature load curve

AMBIENT TEMPERATURE(℃)

115Vac
230Vac

Flicker Test Form

Exemption assessment
(High frequency exemption)

IEEE 1789

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

Brightness

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

IEEE 1789

High Risk

No Effect(green)

Low Risk(yellow)

3500Hz

Modulation(%)

Frequency(Hz)

＊ No further notice if any changes in the manual. Product function depends on the goods. Please feel free to contact your supplier if any question.