

Datasheet

DLCV100-100W Series

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DLCV100 SERIES

100W



Features

- DALI-2&PUSH (2in1) Dimmable
- Dimming range: 1-100%
- SELV, Independent Power Supply
- IP20 Rated Case
- 3 Years Warranty

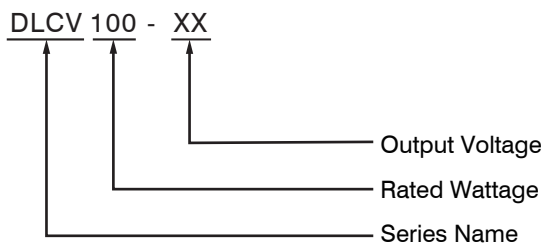
Applications

- Commercial Lighting
- Indoor Lighting
- Industrial Lighting
- Retail Lighting

Description

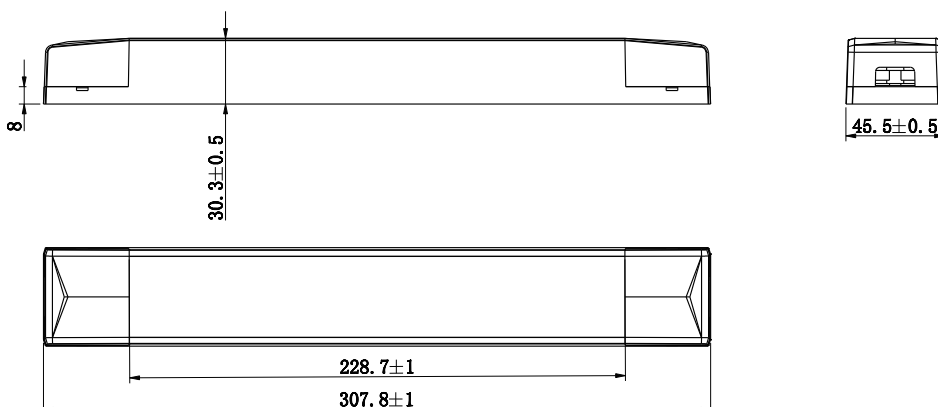
Yingjiao LED driver is designed for various LED lighting devices, with advanced circuit design and high - quality components. It provides stable and reliable power for LED lights, ensuring the best lighting effect in various scenarios, extending the lifespan of the lamps, and featuring DALI and PUSH dimming functions with a dimming range of 0 to 100%. It is also equipped with a detachable cover for convenient use.

Model Description



Dimensions

(Unit: mm , tolerance: ± 1 mm)



Specification

Model	DLCV100-12		DLCV100-24	
Output	DC Voltage	12V	24V	
	Rated Current	8.33A	4.16A	
	Rated Power	100W	100W	
	Ripple & Noise(max.) ^①	400mVm-p		
	Voltage Tolerance	±5%		
	HF Current Ripple(>1KHz)	±1%		
	LF Current Ripple(<120Hz)	±1%		
	Line Regulation	±1%		
	Load Regulation	±3%		
	SVM	<0.4		
	Pst	<1.0		
	Dimming Type	DALI-2 IEC 62386-101,102,207 & Push Dimming (Corridor Function)		
	PWM Resolution	16 bit		
	Dimming Range	1-100%		
	Setup Time	0.8s/230VAC (Full Load)		
Input	Rated Voltage Range	220-240VAC		
	Voltage Range	176-264VAC		
	Frequency Range	50/60Hz		
	AC Current	0.78A/230VAC (Full Load)		
	Power Factor ^①	PF>0.95		
	THD	<10%		
	Efficiency ^①	89%	89.5%	
	Inrush Current	Cold Start 40A/400us at 230VAC		
	Leakage Current	<0.5mA/230VAC		
	No Load Power Consumption	<0.5W		
MCBS	Circuit breaker type	B16	C16	
	Number of drivers	4	6	
Protection	Over Current	110~180% Constant current limiting, recovers automatically after fault condition is removed		
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.		
	Over Voltage	13~15.6V	25.2~31.2V	
		Shut down o/p voltage, re-power on to recover.		
	Over Temperature	Auto Restore.		
Ambient	Working TEMP.	Ta:-20~+40 C (Please refer to "Derating Curve" section)		
	MAX. Case TEMP.	Tc:85 C		
	Working Humidity	20~95%RH Non-condensing		
	Storage TEMP. Humidity	-25~+60 C, 10~95%RH Non-condensing		
	TEMP. Coefficient	±0.03%/(0~40 C)		
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
Life	Lifetime	>50000h@Tc=40 C, full load		
	MTBF	224.5Khrs min. MIL-HDBK-217F(25 C)		
Safety	Safety Standards	EN61347-2-13, EN61347-1 approved		
	Withstand Voltage	I/P-O/P: 3.75KVAC/1MIN		
	Harmonic	EN61000-3-2 Class C EN61000-3-3		
	EMC EMISSION	Compliance to EN55015, EN61547		
	EMC IMMUNITY	Compliance to EN61000-4-11 Criteria B, EN61000-4-2,3,4,5,6,8 Criteria A		
Other	Dimenions(LxWxH)	307.8 x 45.5 x 30.3 mm		
	Packing	230g/pcs; 34 x 22.5 x 20 cm; 20pcs/carton		
Note	<p>1. Tested at full load,230Vac. Refer to"Power Factor" and "Efficient"curve graphs.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 C of ambient temperature.</p> <p>4. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</p>			

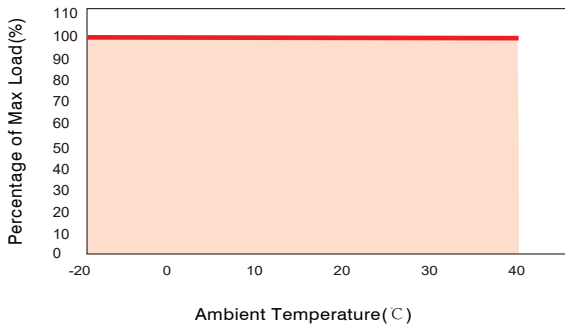
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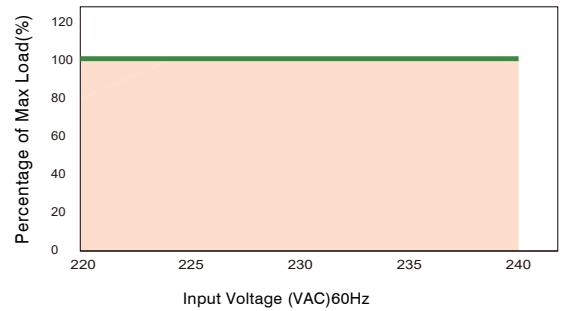
100W

Feature Curves

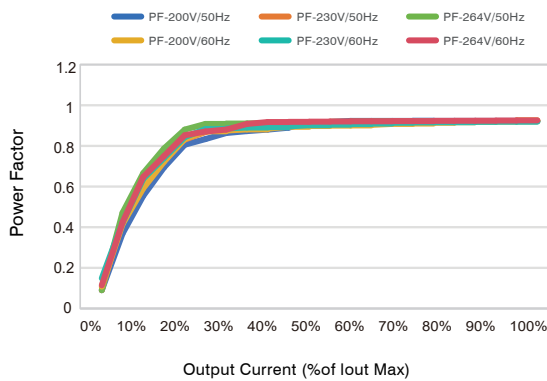
1. Derating Curve



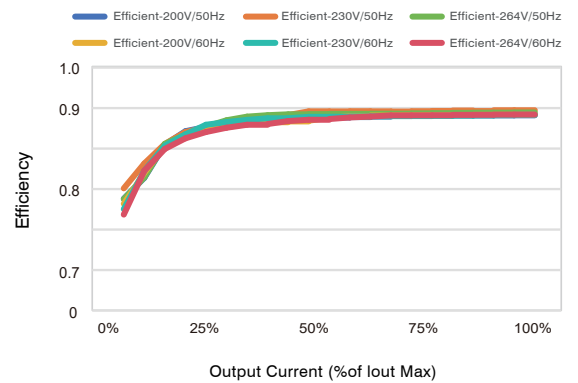
2. Static Characteristics



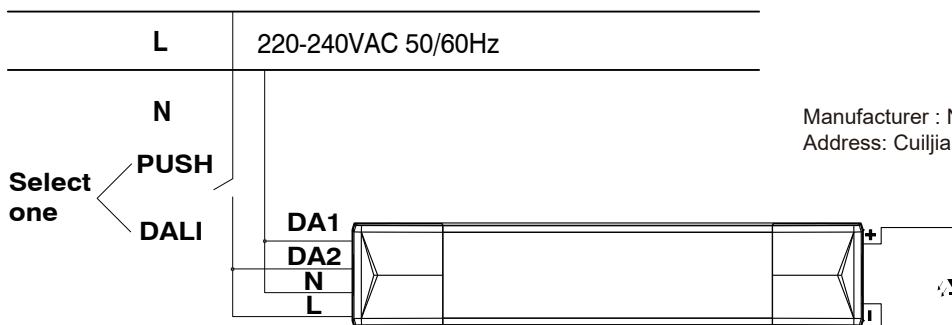
3. Power Factor Curve



4. Efficiency Curve



Wiring Diagram



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