

DLCV-45 SERIES



Input: 220-240V 50/60Hz
Output Voltage: 12V,24V
Rated Power: 45W max

Features

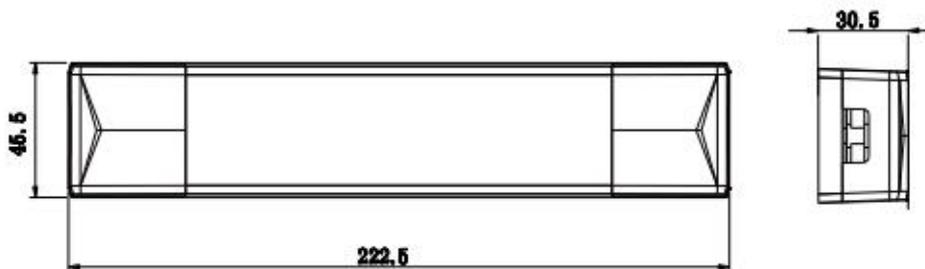
- Class II, SELV, Independent Power Supply
- DALI-2&PUSH(2 in 1) Dimmable
- Dimming range: 1-100%
- Fully-protected plastic housing with design of dismountable end cover.
- ERP :EU2019/2020
- Protection: Short circuit / Overload / Over voltage
- Warranty for 5 years



Application

- LED strips
- LED indoor lighting
- LED decorative lighting
- LED building lighting

■ Dimensions and Installation



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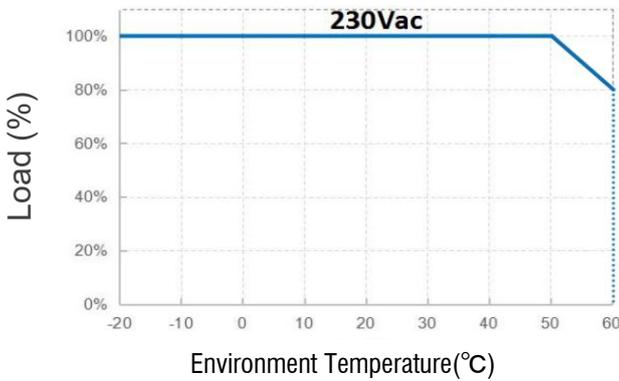
MODEL DETAIL SPEC.		DLCV-45-12		DLCV-45-24	
INPUT	Input Voltage:	220-240VAC			
	Range of Input Voltage:	176-264VAC			
	Input Frequency:	50/60Hz			
	Input Current:	0.34AMAX@Full Load			
	Inrush Current:	Cold start 6.5 A at 230Vac			
	Leakage Current:	< 0.5mA/240VAC			
	THD (Full load):	< 25%			
	Efficiency:	86%			
	Displacement factor:	≥0.9			
	Power Factor:	≥0.95@Full Load 220-240VAC			
	Start-up time:	<0.5S			
	No Load Power:	≤0.5W			
	Standby Power:	≤0.5W			
	Network standby power	≤0.5W			
OUTPUT	DC Voltage:	12V		24V	
	Rated Current(Max):	2.5A	3.75A	1.25A	1.875A
	Rated Power(Max):	30W	45W	30W	45W
	Voltage Tolerance:	±5%			
	Ripple and Noise:	400mVp-p	400mVp-p	400mVp-p	400mVp-p
	Output HF current ripple(> 1KHz):	±1%			
	Output LF current ripple(<120Hz):	±1%			
	SVM:	≤0.4			
	Pst:	≤1			
Dimming	Dimming mode	DALI-2 IEC 62386-101,102,207 & Push Dimming (Corridor Function)			
	Dimming depth	1%			
	Dimming current range	1-100%			
	PWM Resolution	16 bit			
ENVIRONMENTAL	Operating Temperature Ta:	-20°C ~ +50°C			
	Storage Temp:	-30°C ~ +65°C			
	Maximum Case Temperature Tc:	+85°C			
	Humidity:	20 ~ 95% RH			
	Lifetime:	≥50,000h@Tc=75°C, full load			
PROTECTION	Over Load:	105-150%			
		Yes/Auto Restore			
	Over Voltage:	≥12.6VDC		≥25.2VDC	
		Protection type: Auto Restore			
	Short Circuit:	Yes , Protection type: Auto Restore			
	Over Temperature Protection	Yes , Protection type: Auto Restore			
SAFETY & EMC	Safety Regulations:	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347-1;EN61347-2- 13, EN62384;EN55015			
	Withstand Voltage:	I/P-O/P:3750VAC			
	EMC Immunity:	EN61000-4-2,3,4,5,6,8,11, EN61547			
OTHER	Material and SizeSize:	PC,222.5*45.5*30.5mm±1mm			
	IP Grade:	IP20			

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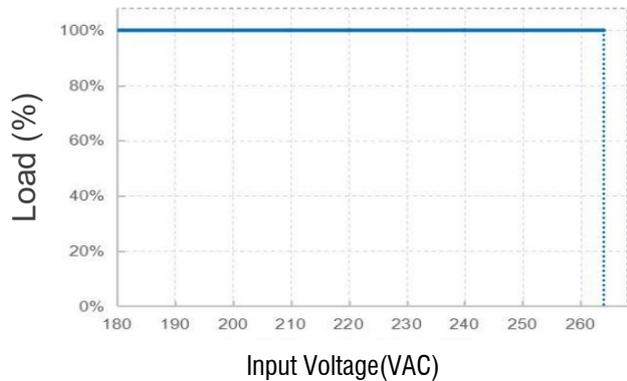
Note:

1. All parameters not specially mentioned are measured at 230VAC input, full load and 25°C of ambient temperature.
2. Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.
3. The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.

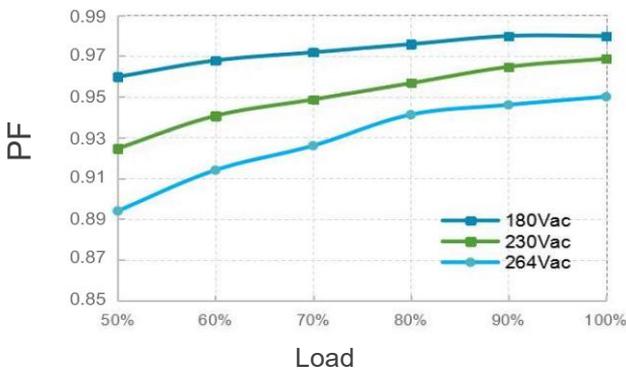
Deduction Curve and Temperature



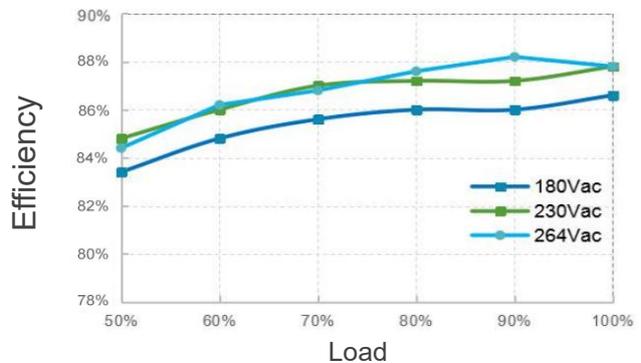
Minus Output and Input Voltage Curves



Power Factor (PF) Curves

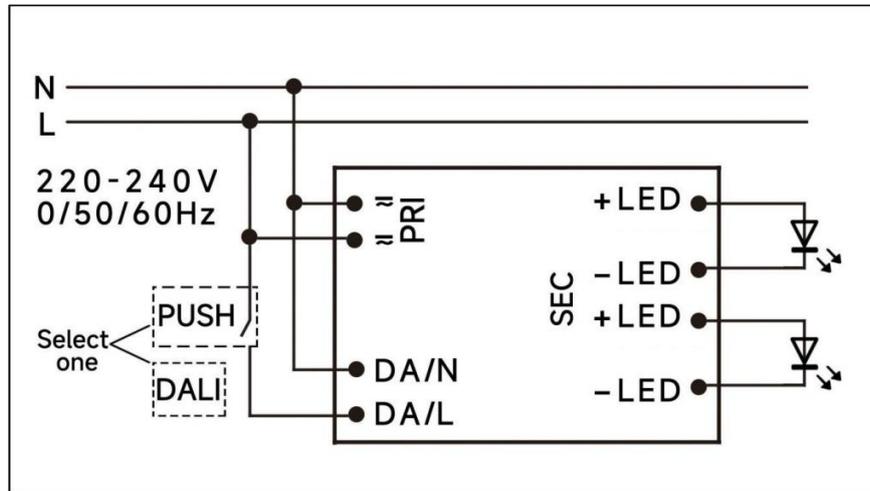


Efficiency Vs Load



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Wiring Diagram



Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

Manufacturer's address:

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<https://www.yingjiaodriver.com>