

## DLCV-100 SERIES



**Input: 220-240V 50/60Hz**

**Output Voltage: 12V,24V**

**Rated Power: 100W 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



## DLCV-100 SERIES

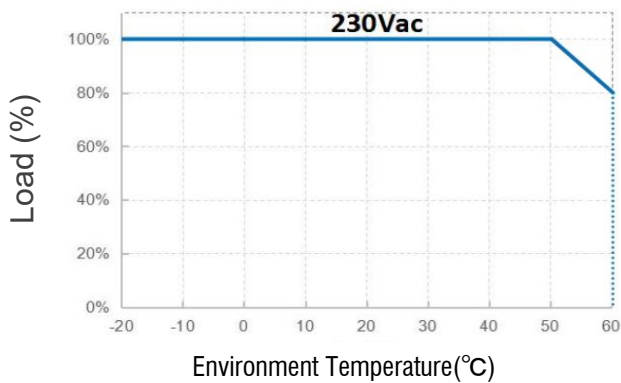
MODEL DETAIL SPEC.		DLCV-100-12	DLCV-100-24
INPUT	Input Voltage:	220-240VAC	
	Range of Input Voltage:	176-264VAC	
	Input Frequency:	50/60Hz	
	Input Current:	0.78AMAX@Full Load	
	Inrush Current:	Cold start 45Aat 230Vac	
	Leakage Current:	< 0.5mA/240VAC	
	THD (Full load):	< 10%	
	Efficiency:	89%	
	Displacement 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):	8.33A	4.16A
	Rated Power(Max):	100W	100W
	Voltage Tolerance:	±5%	
	Ripple and Noise:	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 ~ +40°C	
	Storage Temp:	-20°C ~ +60°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	
SAFETY & EMC	Over Temperature Protection	Yes , Protection type: Auto Restore	
	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	
OTHER	EMC Immunity:	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Material and SizeSize:	PC,308*45.5*30.5mm±1mm	
	IP Grade:	IP20	

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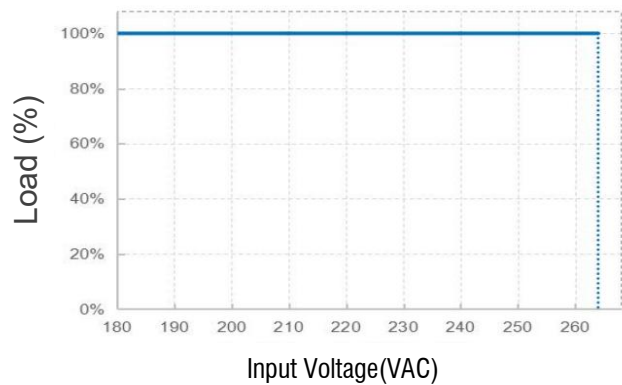
### Note:

- 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.

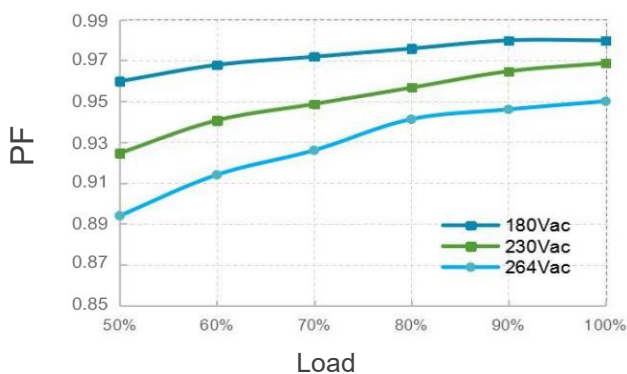
### Deduction Curve and Temperature



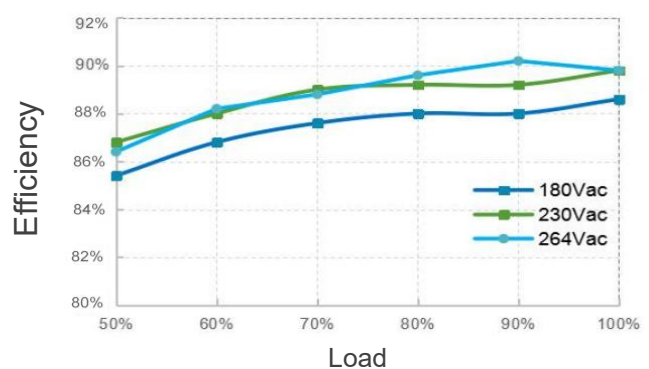
### Minus Output and Input Voltage Curves



### Power Factor (PF) Curves

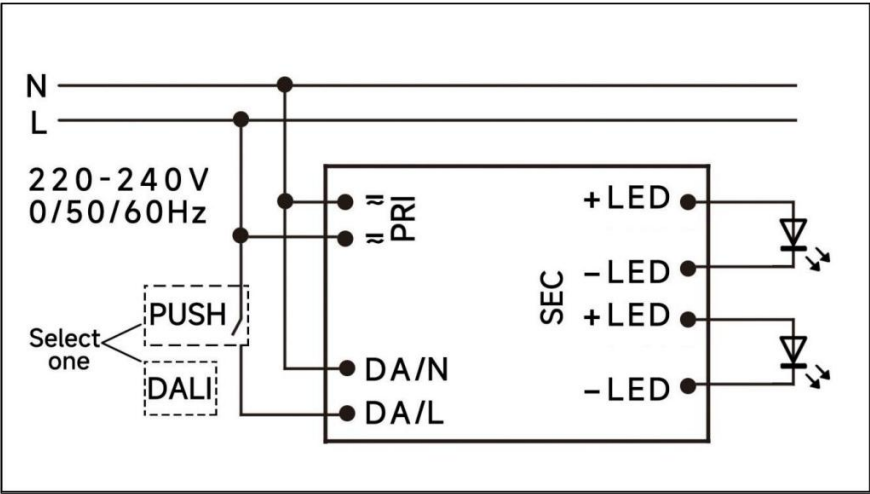


### Efficiency Vs Load



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Wiring Diagram



Wiring & Connections

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

Manufacturer's address:

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