aled®

ALCV036
LED DRIVER SERIES

IP20 CONSTANT VOLTAGE LED DRIVER

ALCV036-xxx

FEATURES

- Universal AC Input Range 90 ~ 264VAC
- Class II Power Design without Earth Pin
- Fully Isolated Plastic Case
- Protections: OCP/SCP/OTP/OVP
- No Load Consumption <0.5W at 230VAC
- Withstand 300VAC Surge Input for 5 Seconds

APPLICATION

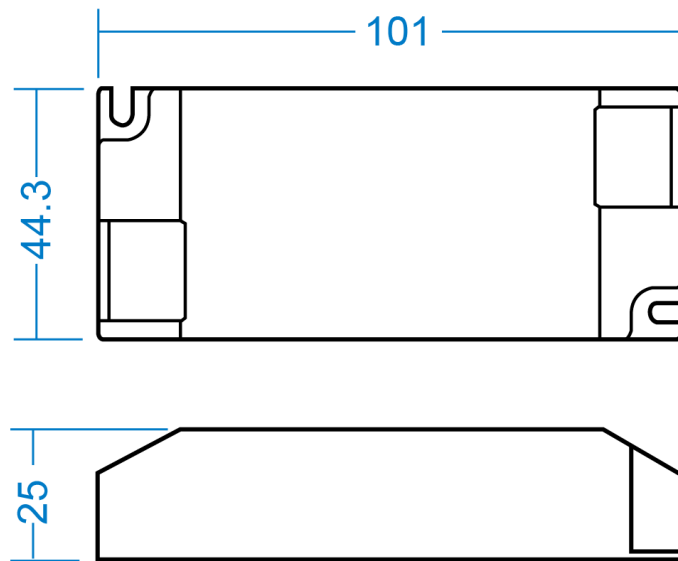- Can be used with LED Strips (aLED KIDEFLEX)

SELV   CE

FC

Technical Data

Product Code		ALCV036-012	ALCV036-024
Output	DC Voltage Range	12V	24V
	Rated Current	0-3A	0-1.5A
	Rated Max. Power	36W	36W
	Voltage Tolerance	± 5%	± 5%
	Ripple & Noise (Max.) note.2	180 mVp-p	240 mVp-p
	Efficiency (Min)	83% at 230VAC full load	85% at 230VAC full load
	Set up Time (Max)	< 1S / 115VAC at full load / < 0.5S / 230VAC at full load	
Input	Rated Voltage	100 - 240VAC	
	Voltage Range	90 - 264VAC	
	Frequency Range	47 Hz ~ 63 Hz	
	AC Current (Max.)	1A at 115VAC /0.5A at 230VAC	
	Inrush Current (Max.)	< 30A at 115VAC /< 60A at 230VAC	
	Leakage Current	< 0.25mA / 240VAC	
	No Load Consumption	<0.5W at 230VAC	
Protections	Over Current	110% - 150% Constant current limiting, auto-recovery	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down.	
	Over Voltage	13-18V	29-33V
		Protection type: Shut down o/p voltage, recovers automatically after voltage goes down.	
Environment	Operation Temp.	-20°C ~ 40°C (Refer to output load derating curve)	
	Operation Humidity	20% ~ 90% RH non-condensing.	
	Storage Temp & Humidity	-20 ~ +80°C ,10% ~ 90% RH	

NOTES

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uF & 47uF parallel capacitor.
3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

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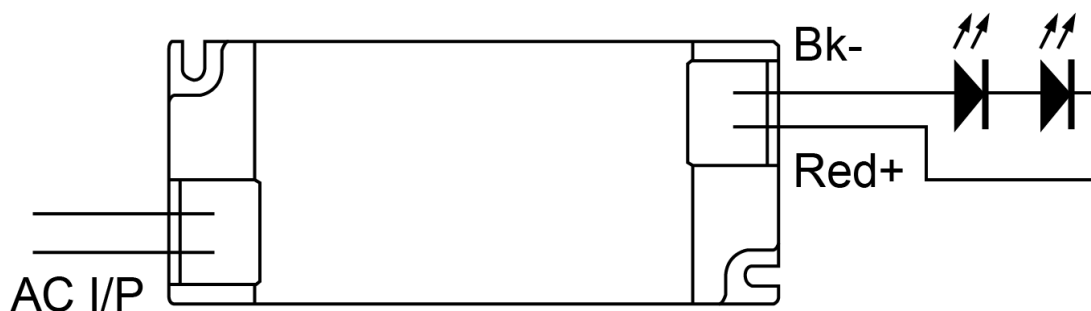LIGHTING YOUR BUSINESS SINCE 1984

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Dimensions

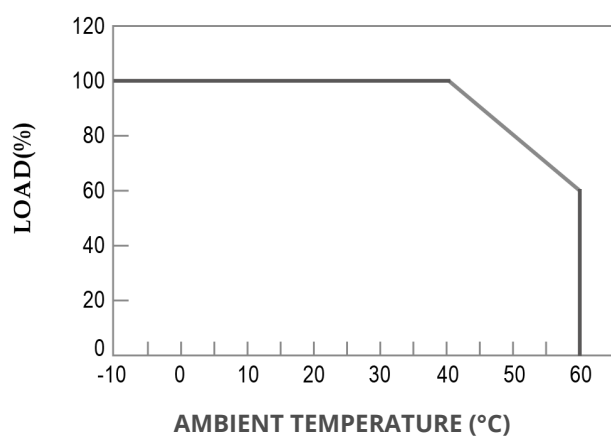|	
Length	101mm
Width	44,3mm
Height	25mm
Weight	140g
Connection	
Input	2P screw terminal block
Output	2P screw terminal block
Safety	
Safety Standards	EN61347-1,EN61347-2-13;
Withstand Voltage	I/P - O/P: 3.75K VAC
Isolation Resistance	I/P - O/P: 100M ohms / 500VDC at 25°C
EMI Conduction & radiation	meet Compliance to EN55015; FCC PART15 CLASSB
EMS immunity	meet Compliance to EN61000-4-2,3,4,5,6,11;EN61547, EN61000-3-2 CLASS C
Warranty and Lifetime	
Warranty	5 Years

Compatible products

aLED KIDEFLEX LED Strip

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Wiring Diagram

Bk-

Red+

AC I/P

Derating Curve

LOAD(%)

120
100
80
60
40
20
0

-10   0   10   20   30   40   50   60

AMBIENT TEMPERATURE (°C)

Power Static Characteristics

LOAD(%)

100
80
60
40
20

90 100 125 135 145 155 165 175 180 200 230 264

INPUT VOLTAGE (VAC)

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