



ALCV036 LED DRIVER SERIES

IP67 CONSTANT VOLTAGE LED DRIVER

ALCV036-xxx-67

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)



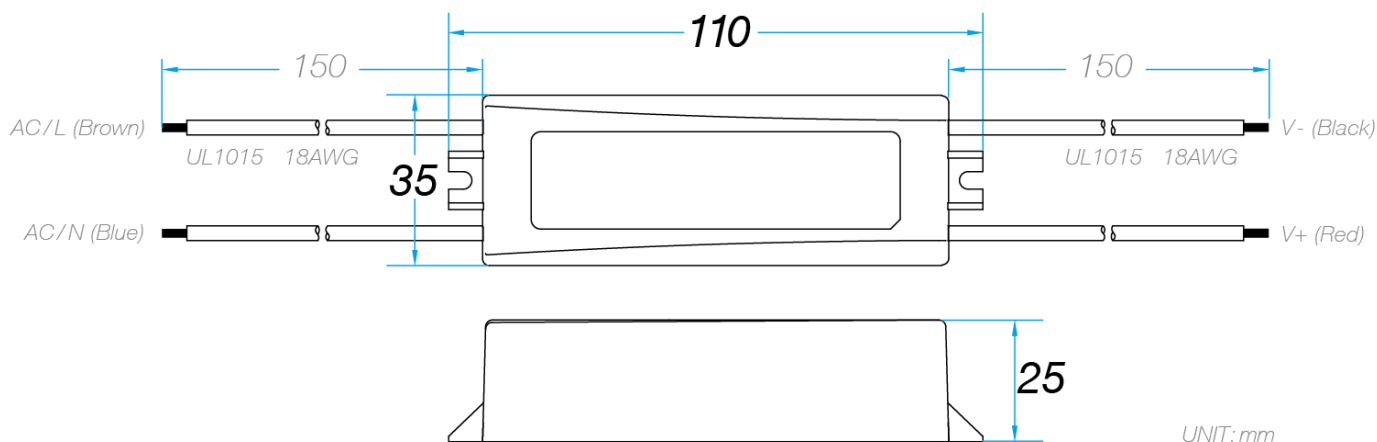
Technical Data

Product Code		ALCV036-012-67	ALCV036-024-67
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
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.

Dimensions

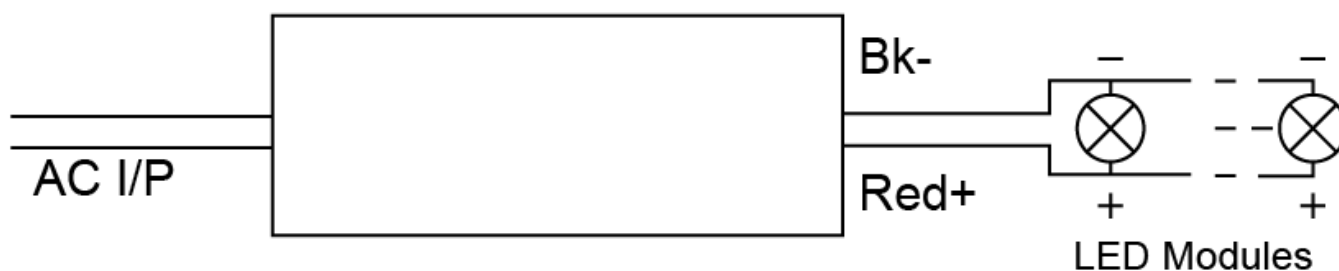


Lenght	110mm
Width	35mm
Height	25mm
Weight	155g
Connection	
Input	UL rated, 18 AWG x 2 C (150 mm)
Output	UL rated, 18 AWG x 2 C (150 mm)
Safety	
Safety Standards	EN61347-1,EN61347-2-13;
Withstand Voltage	I/P - O/P: 3.75K VAC
Isolation Resistance	I/P - O/P: 100M ohms / 500VDC at 25°C
EMI Conduction & 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	
MTBF	100K hours min. @Ta=25°C

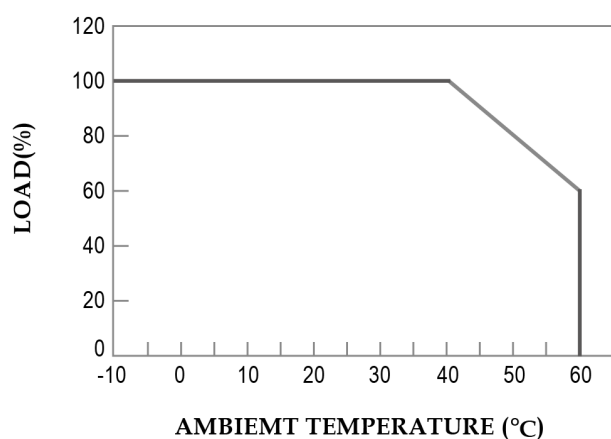
Compatible products

aLED KIDEFLEX LED Strip

Wiring Diagram



Derating Curve



Power Static Characteristics

