
ALCV060 LED DRIVER SERIES

IP67 CONSTANT VOLTAGE LED DRIVER

ALCV060-xxx-67

FEATURES

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

APPLICATION

- Can be used with LED Strips (aLED KIDEFLEX)
- Indoor or outdoor installations



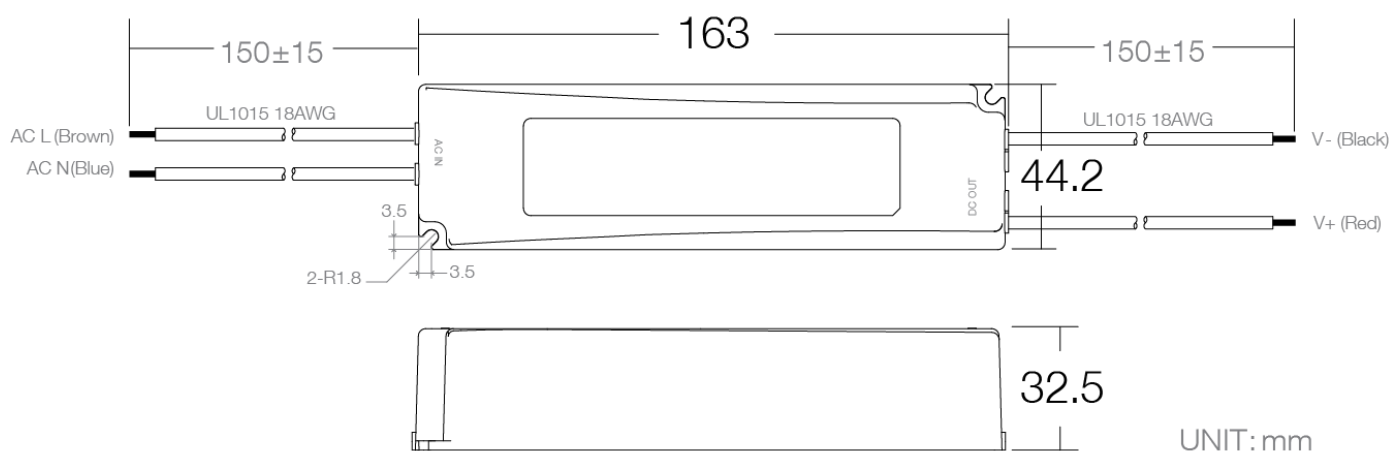
Technical Data

Product Code		ALCV060-005-67	ALCV060-012-67	ALCV060-024-67
Output	DC Voltage Range	5V	12V	24V
	Rated Current	0-8A	0-5A	0-2.5A
	Rated Max. Power	40W	60W	60W
	Voltage Tolerance	± 5%	± 5%	± 5%
	Ripple & Noise (Max.)note2	80 mVp-p	120 mVp-p	150 mVp-p
	Efficiency (Min)	76% at 230VAC full load	85% at 230VAC full load	86% 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.)	1.1A at 115VAC / 0.5A at 230VAC for 40W	1.4A at 115VAC /0.7A at 230VAC	
	Inrush Current (Max.)	30A at 115VAC / 65A at 230VAC for 40W	40A at 115VAC / 75A 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 Voltage		7-12V	14-19V	28-33V
		Protection type: Shut down o/p voltage, recovers automatically after voltage goes down.		
Environment	Operation Temp.	-10°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 reconfirmed that it still meets EMC directives.

Dimensions

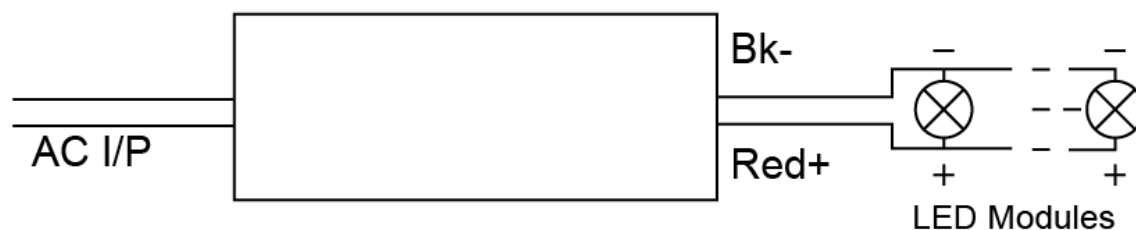


Lenght	163mm
Width	44,2mm
Height	32,5mm
Weight	380g
Connection	
Input	UL rated, 18 AWG x 2 C (150 mm)
Output	UL rated, 18 AWG x 2 C (150 mm)
Safety	
Safety Standards	EN61347-1,EN61347-2-13;
Withstand Voltage	I/P - O/P: 3.75K VAC
Isolation Resistance	I/P - O/P: 100M ohms / 500VDC at 25°C
EMI Conduction & 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	
Warranty	5 years

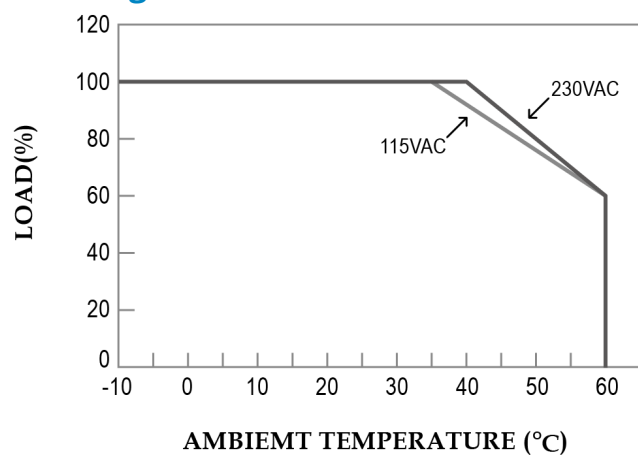
Compatible products

aLED KIDEFLEX LED Strip

Wiring Diagram



Derating Curve



Power Static Characteristics

