

ALCV015 LED DRIVER SERIES

IP67 CONSTANT VOLTAGE LED DRIVER

ALCV015-xxx-67

FEATURES

- Universal AC Input Range 90 ~ 264VAC
- Class II Power Design without Earth Pin
- Fully Isolated Plastic Case
- Operation From -20°C ~60°C Full Load
- Protections: OTP / SCP / OLP
- No Load Consumption <0.5W at 230VAC
- Meet application for ErP (EU) 2019/2020
- IP67

APPLICATION

- Can be used with LED Strips (aLED KIDEFLEX)



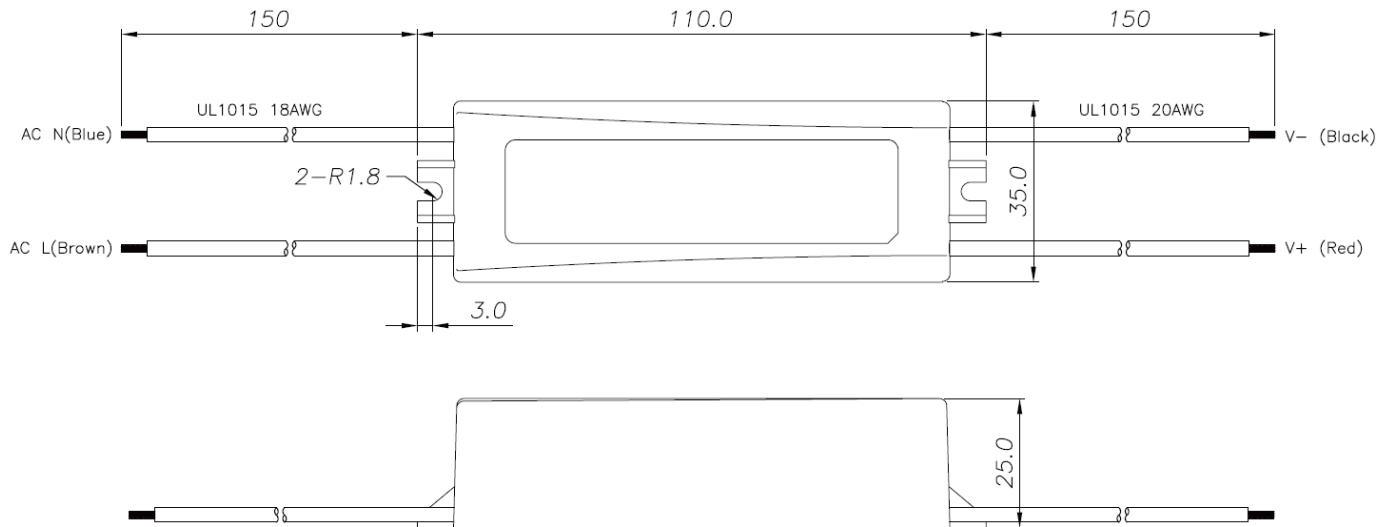
Technical Data

Product Code		ALCV015-012-67	ALCV015-024-67	ALCV015-036-67	ALCV015-048-67	ALCV015-052-67
Output	DC Voltage	12V	24V	36V	48V	52V
	Rated Current Range	0 ~ 1250mA	0 ~ 630mA	0 ~ 420mA	0 ~ 300mA	0~300mA
	Rated Max. Power	15W	15.1W	15.1W	14.4W	15.6W
	Efficiency (at 240VAC)	81%	83%	83%	84%	84%
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%
	Ripple & Noise	180mVpp	240mVpp	360mVpp	400mVpp	450mVpp
	No Load Consumption (Max.)	<0.5W at 230Vac				
	Set up Time (Max)	<500ms at full load				
Input	Voltage Range	90VAC~ 264VAC				
	Frequency Range	47 Hz ~ 63 Hz				
	Power Factor Correction	≥0.88/120VAC , ≥0.8/240VAC				
	AC Current	0.25A at 115VAC / 0.1A at 230VAC				
	Inrush Current	11A at 115VAC / 15A at 230VAC				
	Max. Number of PSUs on Circuit Breaker	B type :7 units (10A) / 12 units (16A), C type : 12 units (10A) / 20 units (16A) at 230VAC				
	Leakage Current	<0.25mA / 230VAC				
Protections	Over Load	130% ~ 160% rated output power; Type : Hiccup Mode				
	Over Temperature	Tc : 95°C ±10°C; Type : Hiccup Mode				
	Short Circuit	Type : Hiccup Mode				
Environment	Operation Temp.	-20°C ~60°C full load. (Refer to output load derating curve)				
	Operation Humidity	20% ~ 95% RH non-condensing.				
	Storage Temp.	-40 ~ +80°C				
	Storage Humidity	10% ~ 95% RH				
	Vibration	10 ~ 500 Hz, 2G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes.				

NOTES

1. All parameters NOT specially mentioned are measured at 230V AC 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	136,2g

Safety

Safety Standards	meet EN61347-1,EN61347-2-13,UL8750 refer 1310
Withstand Voltage	I/P- O/P: 3.75 KVAC
Isolation Resistance	I/P-O/P :100m ohms / 500VDC at 25°C.
EMI Conduction & Radiation	meet EN55015, FCC part15 B
EMS Immunity	meet EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

Warranty and Lifetime

MTBF	200K hours min.MIL-HDBK-217F(25°C)
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Compatible products

aLED KIDEFLEX LED Strip

Derating Curve

