

ALCC015 LED DRIVER SERIES

IP67 CONSTANT CURRENT LED DRIVER

ALCC015-xxxx-xxx-67

FEATURES

- Universal AC Input 90~264VAC
- For High Brightness Light-Emitting Diode Products
- Fully Isolated Plastic Case
- Built-in Constant Current Limiting Design
- Operation from -20°C ~ 60°C Full Load
- Protections: OTP / SCP
- Class II Power Design Without Earth Pin
- IP67 Class

APPLICATION

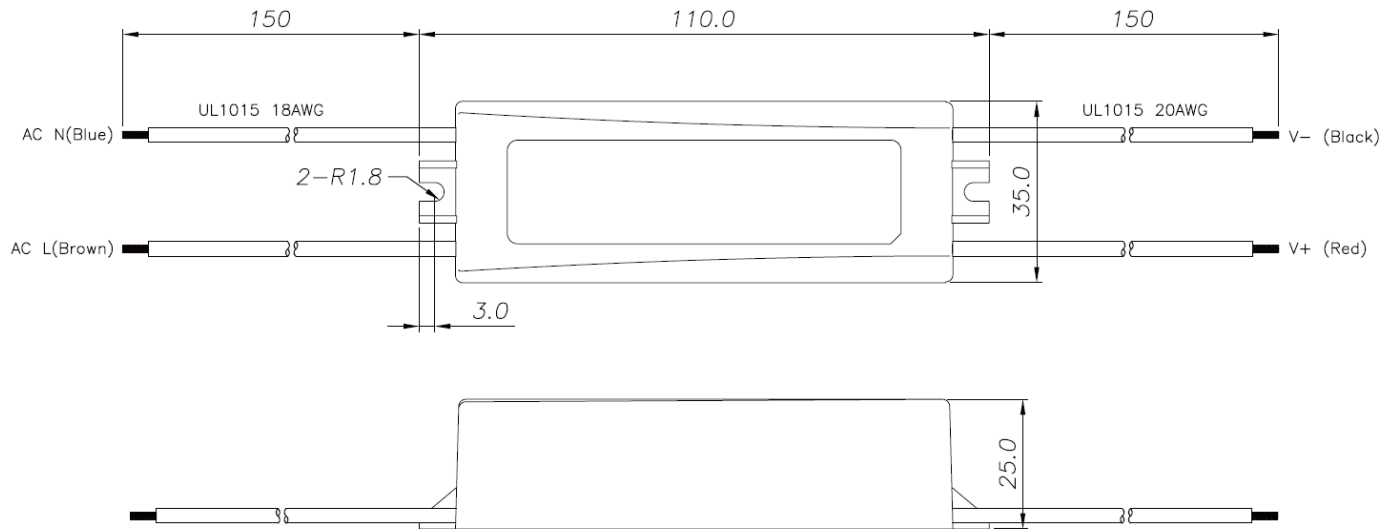
- Indoor and outdoor use



Technical Data

Product Code		ALCC015-01250-012-67	ALCC015-00700-022-67	ALCC015-00700-024-67
Output	DC Voltage	12V	22V	24V
	Rated Current Range	1250mA	700mA	700mA
	Rated Max. Power	15W	15.4W	16.8W
	Efficiency	81%	83%	83%
	DC Voltage Range	8 ~ 12V	14 ~ 22V	14 ~ 24V
	Current Tolerance	±5%		
	Set up Time (Max)	<500ms at full load		
Product Code		ALCC015-00500-030-67	ALCC015-00450-036-67	ALCC015-00420-038-67
Output	DC Voltage	30V	36V	38V
	Rated Current Range	500mA	450mA	420mA
	Rated Max. Power	15W	16.2W	15.96W
	Efficiency	83%	83%	83%
	DC Voltage Range	24 ~ 30V	24 ~ 36V	24 ~ 38V
	Current Tolerance	±5%		
	Set up Time (Max)	<500ms at full load		
Product Code		ALCC015-00350-042-67	ALCC015-00300-048-67	ALCC015-00300-052-67
Output	DC Voltage	42V	48V	52V
	Rated Current Range	350mA	300mA	300mA
	Rated Max. Power	14.7W	14.4W	15.6W
	Efficiency	84%	84%	84%
	DC Voltage Range	26 ~ 42V	26 ~ 48V	30 ~ 52V
	Current Tolerance	±5%		
	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 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.		

Dimensions



Lenght	110mm
Width	35mm
Height	25mm
Lenght of the wires	150mm
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, 6,11,EN61547

Warranty and Lifetime

Warranty	5 years
MTBF	200K hours min.MIL-HDBK-217F(25°C)

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.

Derating Curve

