
ALCC010-DIM LED DRIVER SERIES

IP67 CONSTANT CURRENT LED DRIVER

ALCC010-xxxx-xxx-67-DIM

FEATURES

- Universal AC Input 90~264VAC
- Constant Current Design
- For High Brightness Light-Emitting Diode Products
- Fully Isolated Plastic Case
- 3-in-1 dimming: (Resistance, 1-10V and PWM)
- Operation from -20°C ~ 60°C Full Load
- Protections: OTP / SCP
- Class II Power Design Without Earth Pin
- IP67 Class
- Output Loading

APPLICATION

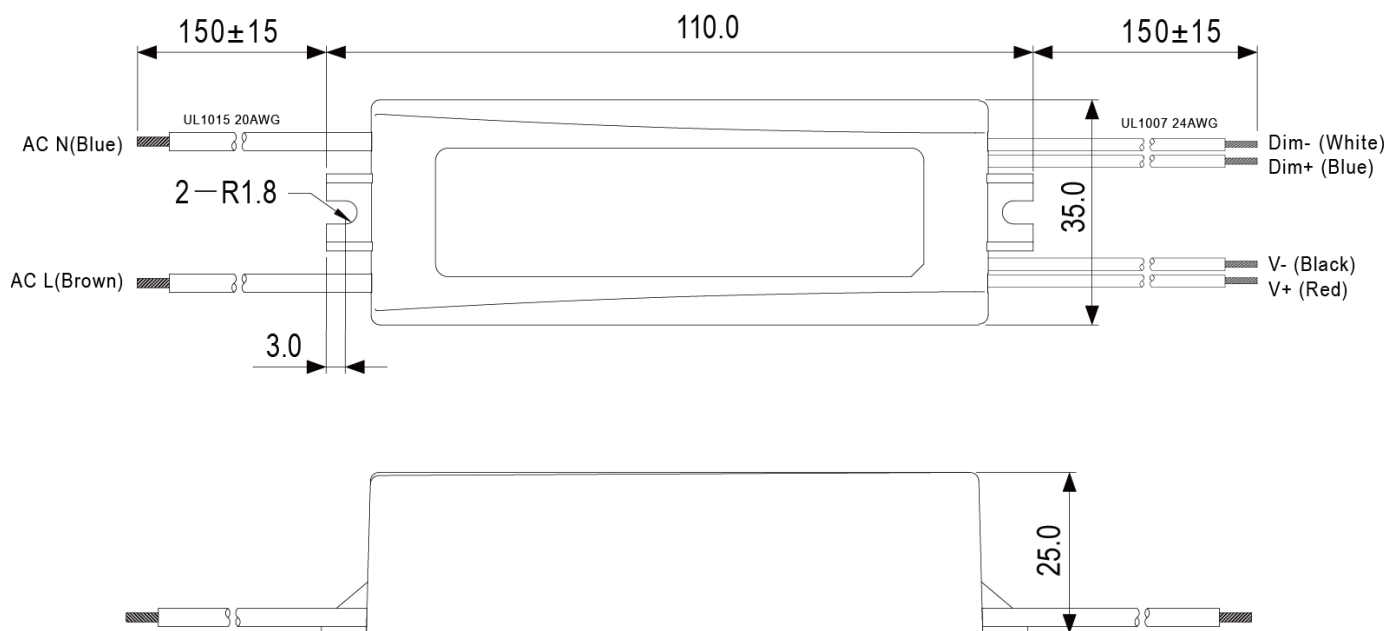
- Indoor and outdoor use



Technical Data

Product Code		ALCC010-01000-012-67-DIM	ALCC010-00500-024-67-DIM	ALCC010-00350-036-67-DIM
Output	DC Voltage	12V	24V	36V
	Rated Current Range	1000mA	500mA	350mA
	Rated Max. Power	12W	12W	12.6W
	Efficiency	79%	82%	81%
	DC Voltage Range	8-12V	14-24V	24-36V
	Current Tolerance	±5%		
	DC Dimming	DC 0-10V or Electronic Potentiometer 0-10V		
	PWM Dimming	Puls:Hi=10V Low=0V, Duty:0%~100%, Fsw 0.5-3KHZ		
	Resistance Dimming	0KΩ~100KΩ		
	No Load Consumption (Max)	<0.5 W at 230V AC		
	Set up Time (Max)	<500ms at full load / 110V AC & 230V AC		
Product Code		ALCC010-00250-048-67-DIM	ALCC010-00230-052-67-DIM	
Output	DC Voltage	48V	52V	
	Rated Current Range	250mA	230mA	
	Rated Max. Power	12W	11.96W	
	Efficiency	81%	80%	
	DC Voltage Range	26-48V	30-52V	
	Current Tolerance	±5%		
	DC Dimming	DC 0-10V or Electronic Potentiometer 0-10V		
	PWM Dimming	Puls:Hi=10V Low=0V, Duty:0%~100%, Fsw 0.5-3KHZ		
	Resistance Dimming	0KΩ~100KΩ		
	No Load Consumption (Max)	<0.5 W at 230V AC		
	Set up Time (Max)	<500ms at full load / 110V AC & 230V AC		
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 120VAC , 0.13A at 240VAC		
	Inrush Current	11A at 115VAC / 15A 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
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
EMS Immunity	meet EN61000-4-2, 3, 4, 5, 6, 8, 11
EMS Immunity	Compliance to EN61000-4 -2,3,4,5,6,8,11; EN61547

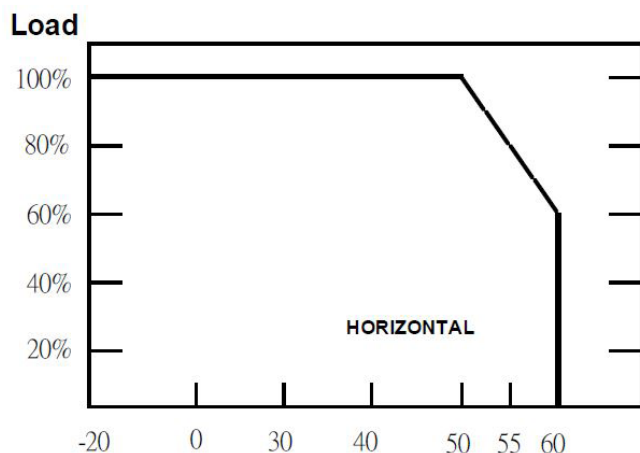
Warranty and Lifetime

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



3-in-1 Dimming Control (DC/ PWM/ Resistance)

10-100K Ω Resistance Dimmable (Typical):

Resistor	Single-driver	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K
	Multi-driver	10K/N	20K/N	30K/N	40K/N	50K/N	60K/N	70K/N	80K/N	90K/N	100K/N
Iout (%)		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

- The length of extended wire for DIM+/- shall not exceed 20 meters. (Wire \leq 20m)
- N=The number of dimmer drivers should not exceed 15. (N \leq 15)

DC: 1-10V Dimmable (Typical):

DIM (Voltage)	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V
Iout (%)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

10V/PWM Dimmable (Typical):

DIM(10V/PWM Duty)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Iout (%)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%