
ALCC015-DIM LED DRIVER SERIES

IP67 DIMMABLE CONSTANT CURRENT LED DRIVER

ALCC015-xxxx-xxx-67-DIM

FEATURES

- Universal AC Input 90~264VAC
- For High Brightness Light-Emitting Diode Products
- Fully Isolated Plastic Case
- 3-in-1 Dimming: Resistance, 1-10V and PWM
- No Load Consumption < 0.5W
- Meet application for ErP (EU) 2019/2020
- Operation from -20°C ~ 60°C Full Load
- Protections: OTP / SCP
- Class II Power Design Without Earth Pin
- IP67 Class

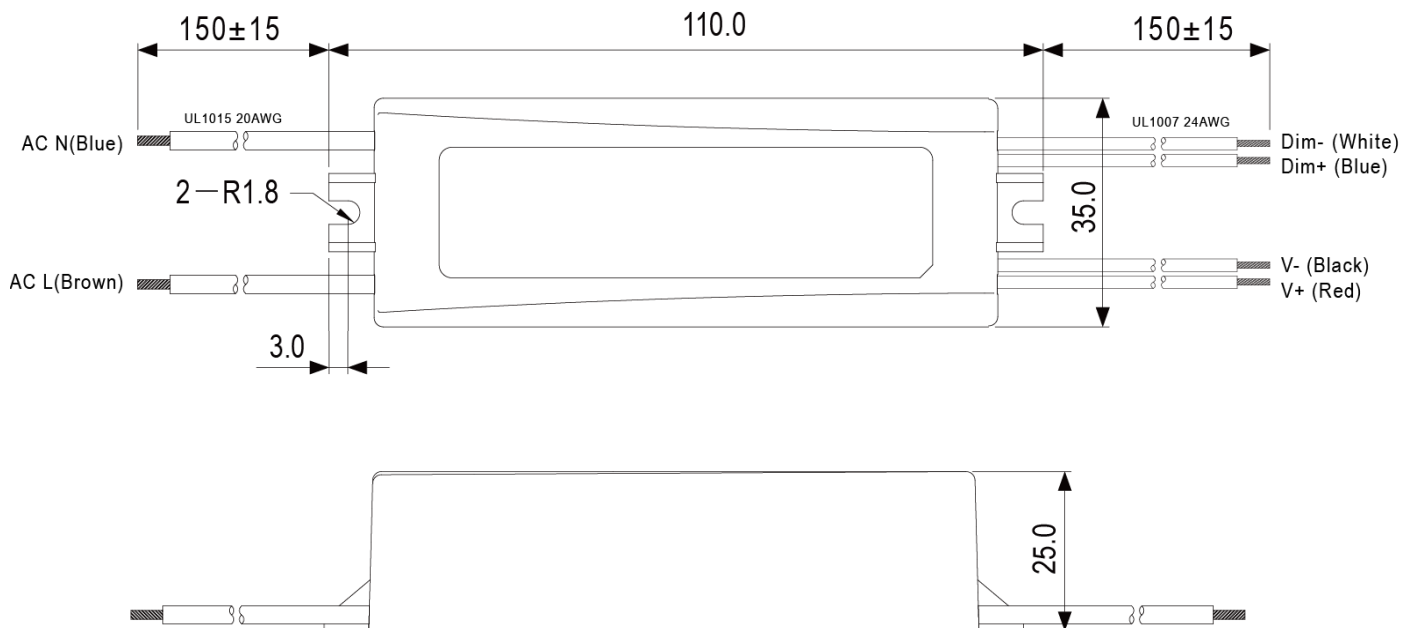
APPLICATION

- Indoor and outdoor use



Product Code		ALCC015-01250-012-67-DIM	ALCC015-00700-022-67-DIM	ALCC015-00700-024-67-DIM
Output	DC Voltage	12V	22V	24V
	Rated Current Range	1250mA	700mA	700mA
	Rated Max. Power	15W	15.4W	16.8W
	Efficiency	80%	82%	83%
	DC Voltage Range	8 ~ 12V	14 ~ 22V	14 ~ 24V
Product Code		ALCC015-00500-030-67-DIM	ALCC015-00450-036-67-DIM	ALCC015-00420-038-67-DIM
Output	DC Voltage	30V	36V	38V
	Rated Current Range	500mA	450mA	420mA
	Rated Max. Power	15W	16.2W	15.96W
	Efficiency	83%	82%	82%
	DC Voltage Range	24 ~ 30V	24 ~ 36V	24 ~ 38V
Product Code		ALCC015-00350-042-67-DIM	ALCC015-00300-048-67-DIM	ALCC015-00300-052-67-DIM
Output	DC Voltage	42V	48V	52V
	Rated Current Range	350mA	300mA	300mA
	Rated Max. Power	14.7W	14.4W	15.6W
	Efficiency	82%	83%	83%
	DC Voltage Range	26 ~ 42V	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 at 120VAC , ≥0.8 at 240VAC		
	AC Current	0.25A at 120VAC , 0.13A at 240VAC		
	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
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

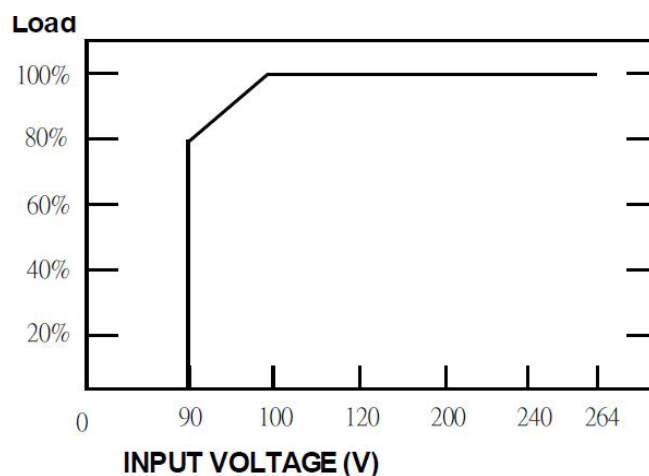
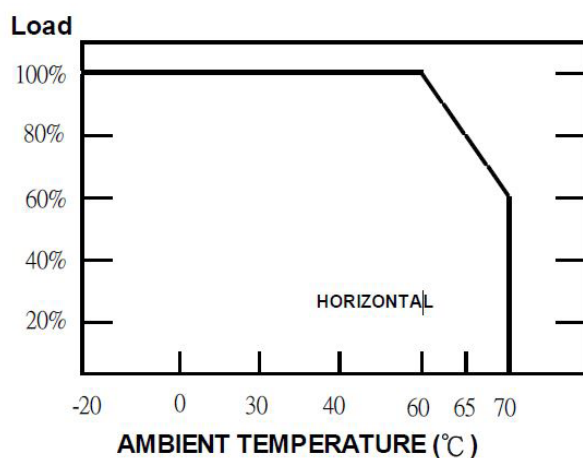
Warranty and Lifetime

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

NOTES

1. All parameters NOT specially mentioned are measured at 240V 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.

Derating Curve



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

10-100KΩ 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≤20m)
- N=The number of dimmer drivers should not exceed 15. (N≤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%