

ALCC025 LED DRIVER SERIES

IP67 CONSTANT CURRENT LED DRIVER

ALCC025-xxxx-xxx-67

FEATURES

- Universal AC Input 90~264VAC
- For High Brightness Light-Emitting Diode Products
- Fully Isolated Plastic Case
- Built-in PFC Function
- Operation from -20°C ~ 50°C Full Load
- Protections: OTP / SCP / OVP
- THD <20% at 240VAC/50Hz
- Class 2 Power Supply Unit
- IP67 Class

APPLICATION

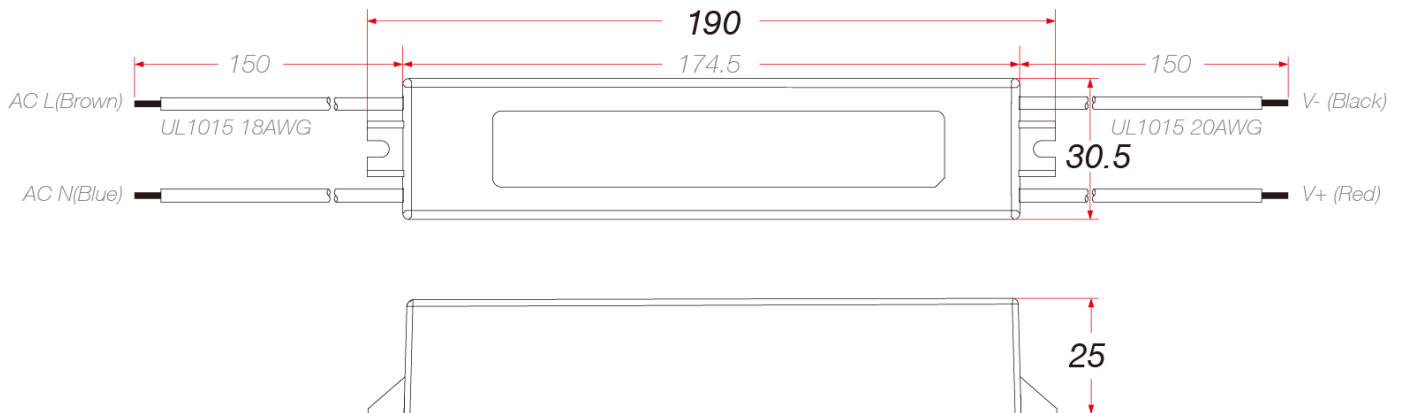
- Indoor and outdoor use



Technical Data

Product Code		ALCC025-02100-012-67	ALCC025-01400-018-67	ALCC025-01050-024-67
Output	DC Voltage Range	8V ~ 12V	12V ~ 18V	16V ~ 24V
	Rated Current Range	2100mA	1400mA	1050mA
	Rated Power	25.2W	25.2W	25.2W
	Ripple & Noise (Max.)	3V	3V	3V
	Efficiency at 240VAC (Typ.)	82%	83%	84%
	Current Tolerance	±8%		
	Set up time (Max.)	2.5 Sec / 115VAC		
Product Code		ALCC025-00700-036-67	ALCC025-00660-038-67	ALCC025-00600-042-67
Output	DC Voltage Range	21V ~ 36V	21V ~ 38V	33V ~ 42V
	Rated Current Range	700mA	660mA	600mA
	Rated Power	25.2W	25.08W	25.2W
	Ripple & Noise (Max.)	3V	3V	3V
	Efficiency at 240VAC (Typ.)	85%	85%	82%
	Current Tolerance	±8%		
	Set up time (Max.)	2.5 Sec / 115VAC		
Product Code		ALCC025-00520-048-67	ALCC025-00480-052-67	
Output	DC Voltage Range	35V ~ 48V	42V ~ 52V	
	Rated Current Range	520mA	480mA	
	Rated Power	24.9W	24.9W	
	Ripple & Noise (Max.)	3V	4V	
	Efficiency at 240VAC (Typ.)	85%	85%	
	Current Tolerance	±8%		
	Set up time (Max.)	2.5 Sec / 115VAC		
Input	Voltage Range	90 ~ 295VAC		
	Frequency Range	47 ~ 63 Hz		
	AC Current (Max.)	0.4A at 120VAC / 0.2A at 240VAC		
	Power Factor	>0.98 at 120VAC / >0.9 at 240VAC / full load		
	Inrush Current (Max.)	COLD START 20A at 264VAC		
	Leakage Current	<0.25mA / 230VAC		
Protections	Short Circuit	YES, No Damage		
	Over Voltage	110% ~ 150% Output Voltage		
	Over Temperature	Rth: By NTC define Type: auto-recover mode		
Environment	Operation Temperature	-20°C ~50°C full load		
	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	190mm
Width	30,5mm
Height	25mm
Lenght of the wires	150mm
Weight	209g

Safety

Safety Standards	UL8750 , EN61347-1,EN61347-2-13, Independent ; IP65 Approved
Withstand Voltage	Meet I/P-O/P: 3.75KVAC
Isolation Resistance	Meet I/P-O/P:100M ohms / 500VDC at 25°C
EMI Conduction & Radiation	Meet Compliance to EN55015,FCC part 15
Harmonic Current	Meet Compliance to EN61000-3-2 Class C
EMS Immunity	Meet Compliance to 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 specifications not specially mentioned are measured at 230VAC and 25°C ambient temperature.
2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
3. Current Tolerance: includes line regulation, load regulation and set-up tolerance.

Derating Curve

