

ALCV040 LED DRIVER SERIES

TRIAC DIMMABLE IP65 CONSTANT VOLTAGE LED DRIVER

ALCV040-xxx-65-DIM

FEATURES

- AC phase-cut dimming
- Input range from 205VAC to 256VAC
- Work with leading edge and trailing edge TRIAC dimmers
- Fully potted suitable for dry and damp location applications
- Protections: Over Current / Short Circuit / Over Voltage / Over Temperature
- 2 Years warranty
- RoHS compliant

APPLICATION

- Can be used with LED Strips (aled KIDEFLEX)
- Indoor or outdoor installations



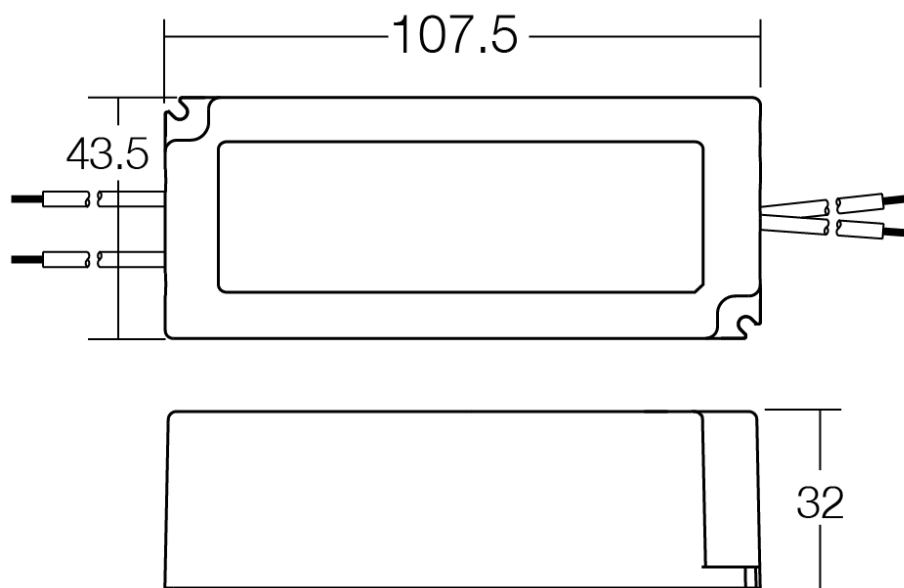
Technical Data

Product Code		ALCV040-012-65-DIM	ALCV040-024-65-DIM
Output	Voltage Range	12VDC	24VDC
	Ripple & Noise (Max.) note.2	0.8Vp-p	0.6Vp-p
	Voltage Tolerance	± 5%	± 5%
	dimming Range	5%~100%	5%~100%
	Rated Current	3.4A	1.7A
	Rated Power	40.8W	40.8W
	Efficiency (Typ.) note.1	82%	84%
	Set up Time (Max)	0.5S / 230VAC at full load	
Input	Rated Voltage	220~240VAC	
	Voltage Range	205~256VAC	
	Frequency Range	50/60 Hz	
	AC Current (Max.)	0.5A at 230VAC	
	Power Factor	> 0.45 at 230VAC with full load.	
	Inrush Current (Typ.)	Cold Start 50A at 230VAC	
	Leakage Current (Typ.)	<1mA / 230VAC	
Protections	Over Voltage	120 % - 150% Output voltage limiting, auto-recovery	
	Over Current	120% - 150% Constant current limiting, auto-recovery	
	Over Temperature	110°C - 125°C Temperature limiting, auto-recovery	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed	
Environment	Operation Temp.	-20°C ~ 45°C (Refer to output load derating curve)	
	Operation Humidity	20% ~ 90% RH non-condensing.	
	Storage Temp.	-20 ~ +80°C	
	Storage Humidity	10% ~ 90% RH	

NOTES

1. All parameters NOT specially mentioned are measured at 230V/50HZ 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 at 100% duty output
3. The power supply is considered a component which will be installed a final equipment. The final equipment must be reconfirmed that it still meets EMC directives.

Dimensions



Lenght	107,5mm
Width	43,5mm
Height	32mm
Weight	240g

Safety

Safety Standards	meet EN61347-1,EN61347-2-13
Withstand Voltage	I/P - O/P : 3.75K VAC
Isolation Resistance	I/P□O/P : 100M ohms / 500VDC at 25°C
EMC Standards note.3	meet EN55015,EN61000-4-2,3,4,5,6,8,11 ,EN61547

Warranty and Lifetime

Warranty	2 years
MTBF	100K hours min. @Ta=25°C

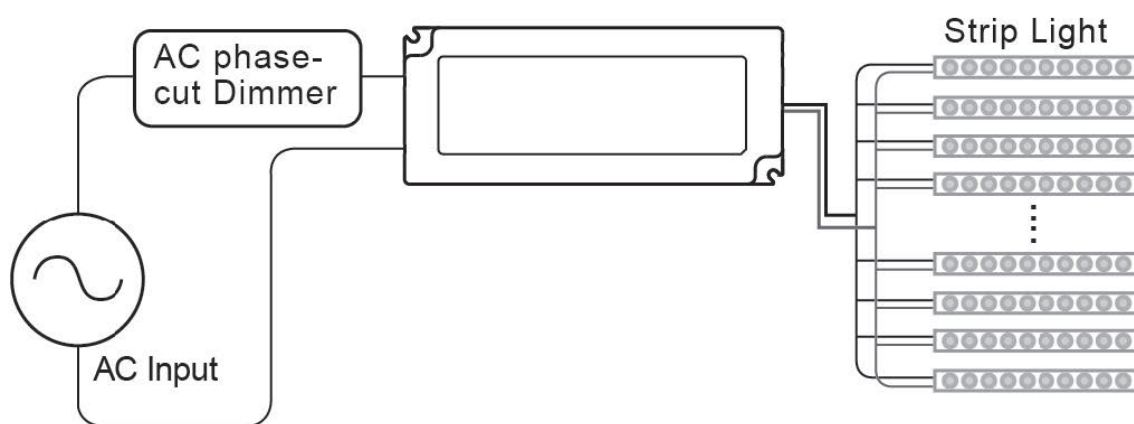
Compatible products

aLED KIDEFLEX LED Strip

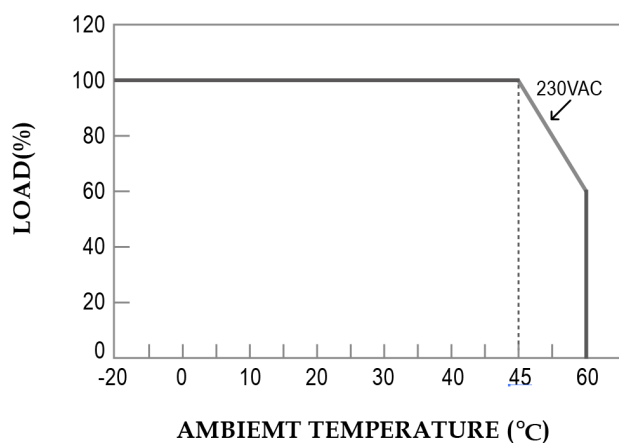
Dimmer Recommended

Brand	Parts NO.
BERKER	286710
IMPORTE PAR TIBelec	27222
JONYEI	JY-50182
Kopp	DIMMER 8085
LICHTREGLER	814
SCHNEIDER	EV51RD400
SHIHLIN	A5-21A1
SIEMTEC	V9-032

Wiring Diagram



Derating Curve



Static Characteristics

