Features LED Driver

- 6W AC-DC Class II LED Power Supply
- 350mA or 700mA Constant Current Output
- Drives 1 6 High brightness LEDs
- Universal Input Voltage Range
- Fused Input, Protected Output
- 3kVAC Isolation
- ID44
- Low Cost
- 3 Year Warranty

LIGHTLINE AC/DC-Converter with 3 year Warranty



6 Watt Single Output







UL-8750 Pending EN 61347 Certified



Description

A compact universal input 6W constant current switching power module suitable for driving up to six high power LEDs (Vf = 3.6V). The output current is fixed at 350mA or 700mA. If the LED load is too high (Vout >21V for 350mA version or Vout>8.5V for 700mA version, the converter will power limit and reduce the outpt current to 300mA and 600mA respectively.

Selection Guide

Part Number	Nominal Input Voltage (VAC)	Input Current at full load (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD06-350	universal	160	3-21	350	6 x 1W
RACD06-700	universal	160	3-8.5	700	2 x 2W

Specifications (typical at 25°C and after warm up time unless otherwise specified)

Input Voltage Range		90-264VAC	
Rated Power		6 Watts max.	
Input Frequency Range		47-63 Hz	
Power Factor	Full Load, 115VAC/230VAC	0.5	
Output Voltage Range	350mA Version	3 - 21VDC	
	350mA derated to 300mA	up to 24V	
	700mA Version	3 - 8.5VDC	
	700mA derated to 600mA	up to 12V	
Inrush Current (<2mS)	115VAC/230VAC	10A max.	
Leakage Current	115VAC/240VAC - 60/50H	z 0.4mA typ.	
Input Fuse (Built-in)	Standard	T2A	
Input Current	Full Load, Nominal Vin	see table	
Output Current Accuracy (combined Tolera	nce, Load Regulation and Line F	Regulation) ±10%	
Minimum Load	Open Circuit Protected	1 LED	
Output Ripple		0.2Ap-p max.	
Hold Up Time		18ms min.	
Operating Frequency		132kHz max.	
Efficiency at Full Load		65% typ.	
AC RMS Isolation Voltage (input to output)	3.75kV / 1 minu	te typ., 3kV / 1 minute min.	
Temperature Coefficient		±0.02%/°C typ.	
Overload Protection		120% typ.	
Short Circuit Protection		Continuous Current Limit	
Output Overvoltage Protection	350mA Version	12V Zener Diode Clamp	
	700mA Version	24V Zener Diode Clamp	
Overtemperature Protection	Shutdown, Automati	Shutdown, Automatic restart after cooling down	
Operating Temperature Range	Ambient Temperature	-20°C to +50°C	
(free air convection)	Case Temperature	80°C max.	

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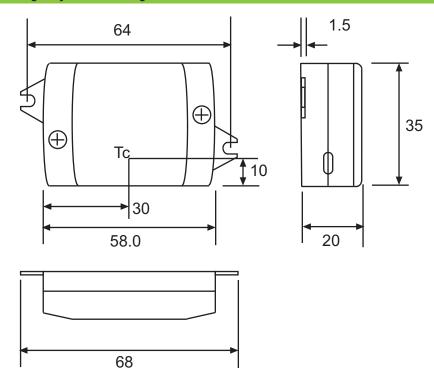
RACD06

Specifications cont. (typical at 25°C and after warm up time unless otherwise specified)

Storage Temperature Range		-40°C to +85°C
Humidity		95% RH max.
IP Rating		IP20, Indoor Use Only
Weight		34g
Packing Quantity		1pc
PCB Material	(UL94V-0)	Plastic Resin with Fibreglass
Case Material	(UL94V-0)	Plastic
Designed to meet Standards	Electrical Lighting, EMC Emissions EN5	55015:2006 + A1: 2007 + A2:2009
	Limits for Harmonics Emissions	EN 61000-3-2:2006
	EMC Compatibilty: Flicker and Voltage Variations	EN 61000-3-3:2006
	Electrical Lighting: EMC Immunity	EN 61547:1995 + A1:2000
	Class II Power Supply Safety	UL1310
	FCC	FCC18A
Certifications	LED Lighting Safety	designed to meet UL8750
	SEMKO CE Certification, General Safety	EN 61347-1: 2008
	SEMKO CE Certification, Safety of AC supplied Control Gear for LED Modul	les EN 61347-2-13: 2006
Design Lifetime	25°C ambient	>20 x 10 ³ hours in operation
Connections	AC Input	Screw terminal
	LED Output	Screw Terminal*

^{*} Do not connect or disconnect the LED load while the converter is on. This may damage the LED or reduce its life.

Package Style and Pinning





Connections



CN1	Function	
L	VAC in (L)	
N	VAC in (N)	
CN2	Function	

- LED+ LED-

Tolerance XX = +/-0.5mm XX.X = +/-0.25mm

2 Mounting screws are included

Tc = Case Temperature Measuring Point