Features

- 3W Class II AC-DC LED Power Supply
- 350mA Constant Current Output

LED Driver

- Drives 1 3 High brightness LEDs • Universal Input Voltage Range
- Fused Input and Protected Output
- 3kVAC Isolation
- IP64
- Low Cost
- 3 Year Warranty

Description

A compact universal AC input 3W constant current switching power module suitable for driving 1 - 3 high power LEDs (Vf = 3.6V). The output current is fixed at 350mA or 700mA. Connections are via 130mm long flying leads.

Selection Guide

Part Number	Nominal Input Voltage (VAC)	Input Current (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD03-350	universal	38	3-12	350	3 x 1W
RACD03-700	universal	20	3-6	700	1 x 2W

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

Input Voltage Range		90-264VAC
Rated Power		3 Watts max.
Input Frequency Range		47-63 Hz
Power Factor	Full Load, 230VAC	0.5
Output Voltage Range		3 - 12VDC max.
Inrush Current (<2mS)	230VAC	10A max.
Leakage Current	240VAC/50Hz	0.2mA typ.
Input Fuse	Built-in	T1A
Input Current	Full Load, 230VAC	38mA
Output Current Accuracy (combined Tolera	nce, Load Regulation and Lin	e Regulation) ±10%
Minimum Load	Open Circuit Protected	1 LED
Output Ripple		0.1Ap-p max.
Hold Up Time		18ms min.
Operating Frequency		66kHz typ.
Efficiency at Full Load		55% typ.
AC RMS Isolation Voltage (input to output)	3.75kV / 1 m	inute typ., 3KV/1 minute min.
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection		Continuous Current Limit
Output Overvoltage Protection		12V Zener Diode Clamp
Overtemperature Protection	Shutdown, Automa	tic restart after cooling down
Operating Temperature Range	Ambient Temperature	0°C to +50°C
(free air convection)	Case Temperature	80°C max.
Storage Temperature Range		-25°C to +85°C
Humidity		95% RH max.
IP Rating		IP64
		continued on next page

LIGHTLINE AC/DC-Converter with 3 year Warranty



3 Watt Single Output



CE

UL-8750 Pending EN 61347 Certified



RACDO3

LIGHTLINE AC/DC-Converter

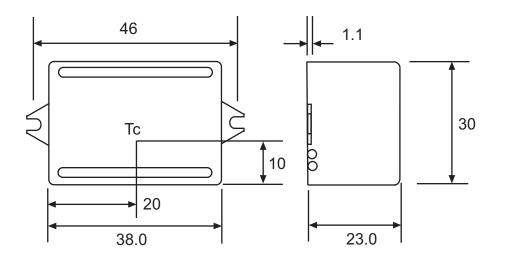
RACDO3 Series

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

PCB Material Plastic Resin with F		Plastic Resin with Fibreglass (UL94V	Fibreglass (UL94V-0)	
Case Material		Plas	stic	
Weight		4	l5g	
Packing Quantity		1	lpc	
Designed to meet Standards	Electrical Lighting, EMC Emissions	EN55015:2006 + A1: 2007 + A2:20	09	
	Limits for Harmonics Emissions	EN 61000-3-2:20	06	
	EMC Compatibilty: Flicker and Voltage Variatio	ns EN 61000-3-3:20	06	
	Electrical Lighting: EMC Immunity	EN 61547:1995 + A1:20	00	
	Class II Power Supply Safety	UL13	10	
	FCC	FCC1	8A	
Certifications	LED Lighting Safety	designed to meet UL87	50	
	SEMKO CE Certification, General Safety	EN 61347-1: 20	80	
	SEMKO CE Certification, Safety of AC supplied	I Control Gear for LED Modules EN 61347-2-13: 20	06	
Design Lifetime	25°C ambient	>20 x 10 ³ hours in operati	ion	
Connections	AC Input Live	Brown Wire, AWG22, 130mm + 5mm stripped and tinn	ed	
	AC Input Neutral	Blue Wire, AWG22, 130mm + 5mm stripped and tinn	ed	
	LED + White S	Striped Black Wire, AWG24, 130mm + 5mm stripped and tinne	d*	
	LED -	Black Wire, AWG24, 130mm + 5mm stripped and tinne	d*	

* 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



3rd angle projection	$\bigcirc \bigcirc$
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Wire Connections		
Wire	Function	
Brown	VAC in (L)	
Blue	VAC in (N)	
White	LED+	
Black	LED-	
Toloranco		

Tolerance XX = +1mm/ -0.5mm

XX.X = +/- 0.25mm

2 Mounting screws are included

Tc = Case Temperature Measuring Point

RACDO3